Figure 2

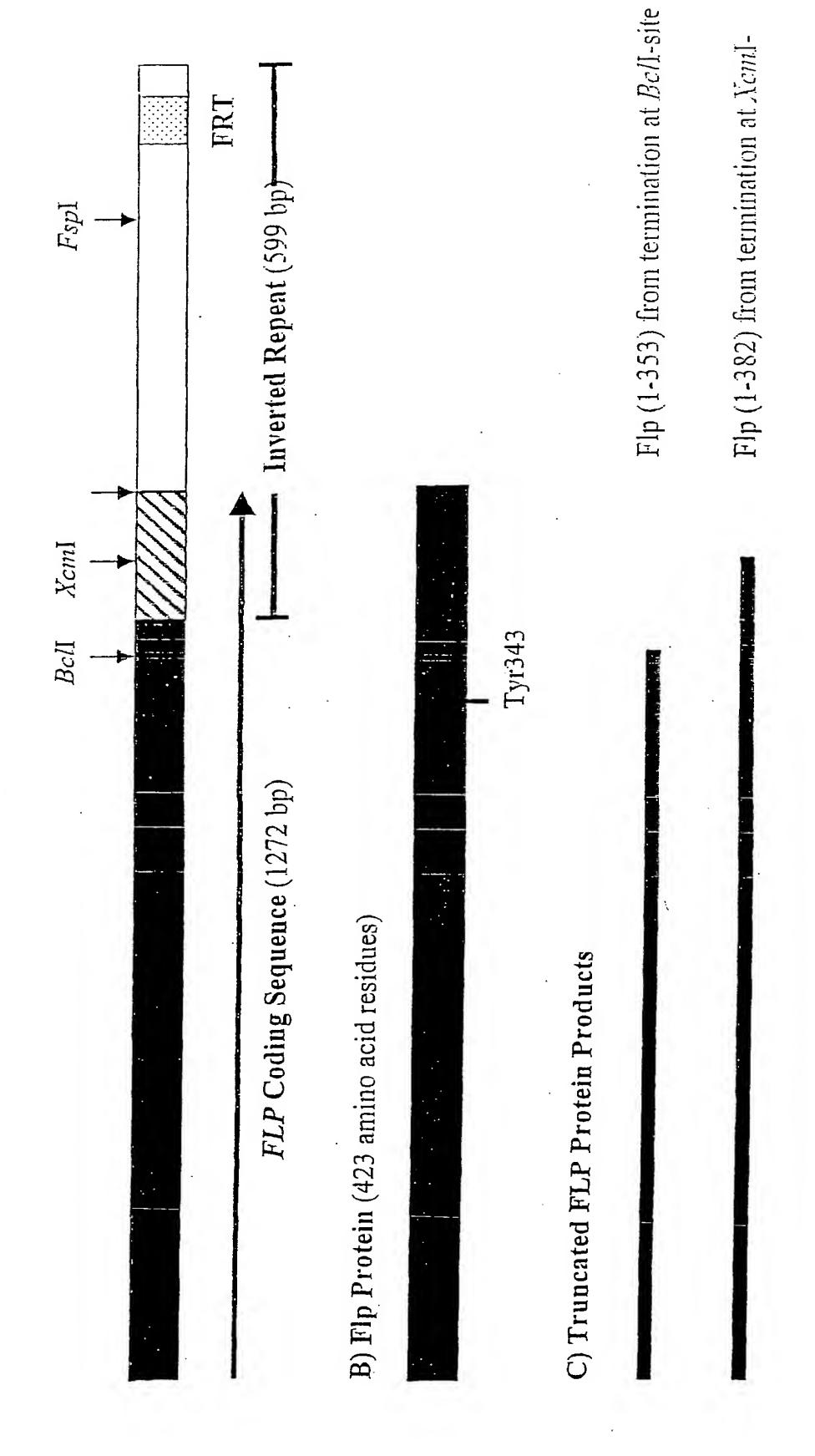
Record 귻 AinpR. Eagl FLP ori. Ybal pSAC35 11037 bps I.R. Norl Eng J R.E.P.2 011 K Xbal, Fsp 1 Xcm 1 LEU2 Eco RI Xcm 1 Hin dIII Fspil Eco RI Hin dill Aval Pst 1 Hpal

Eco N XbaI REP1 PsrI IR2 2-micron Cla I, Eco RI 6318 bps STB AvaIori SnaBI IR1 REP2 Xbal Eagl. 1/63

Figure 1

Figure 3

A) Restriction Endonuclease Sites used for DNA Insertions in FLP and the FLP Inverted



PDH (SKQ2n)

Figure 5

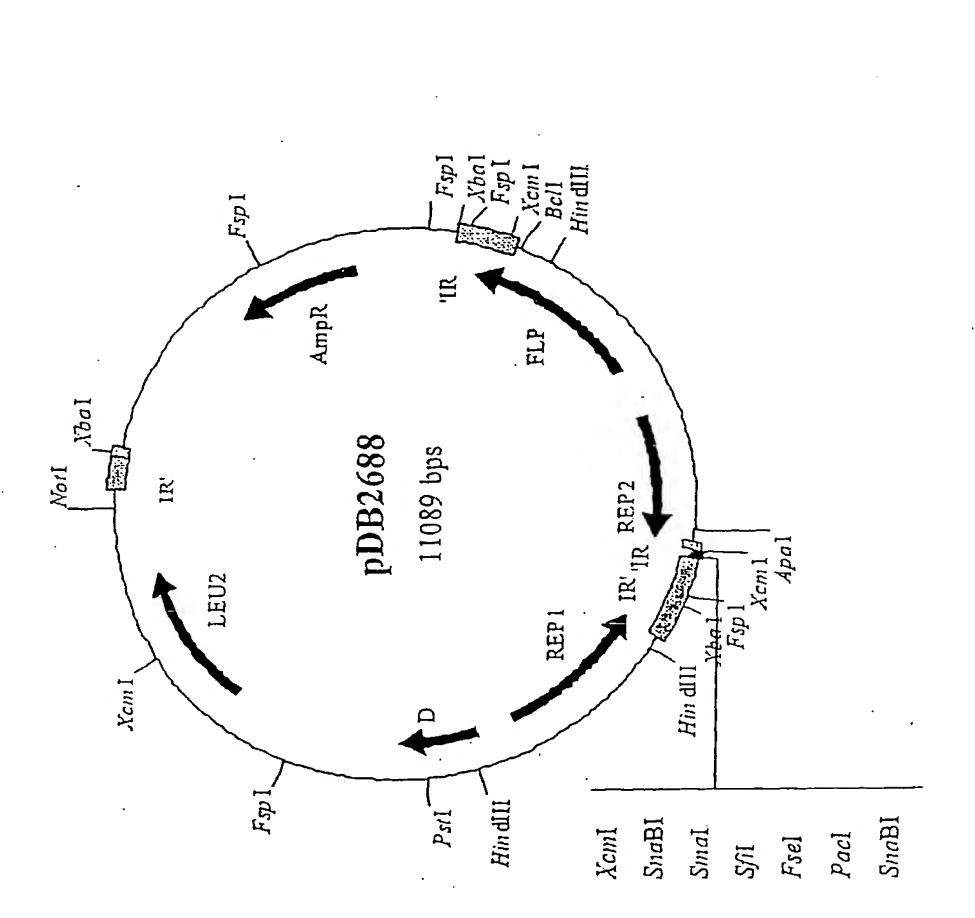


Figure 7

mFL = modified HSA(pre)/MF α 1(pro) fusion leader sequence .Yha l BindIII Sph I Nori HindIII <u>`</u> mADH1t $\begin{cases} Xbal \\ Bgl11 \\ Nde1 \\ Bam H1 \end{cases}$ \\\Ndel\ Bc/I Hin dIII AmpR Modified T £ 'IR PRB1p mFL Sphi FLP 16292 bps pDB2711 Not1 REP2 ĭ, Sfill Fsell Pac I Apa I PDII REP 1 Hin dili BcII Hin diliStul BgIII Pstl Stu I HindIII Xbal Hin dill Sm1 Xcm1 Bcl1 Hind[11 Fsp I Xba I Fsp I Fsp I IR FLP AmpR Apal Xcm I Sna BI PacI Fse I Sfi I REP2 Xbal 'IR |HindII| BcIIpDB2690 13018 bps NotI IR PD11 Hin dIII LEU2]限 Xcm I REP 1 Xba I / Kem I / Sna BI | BcII Hin dIII Fsp I Figure 6 PstI Hin dII

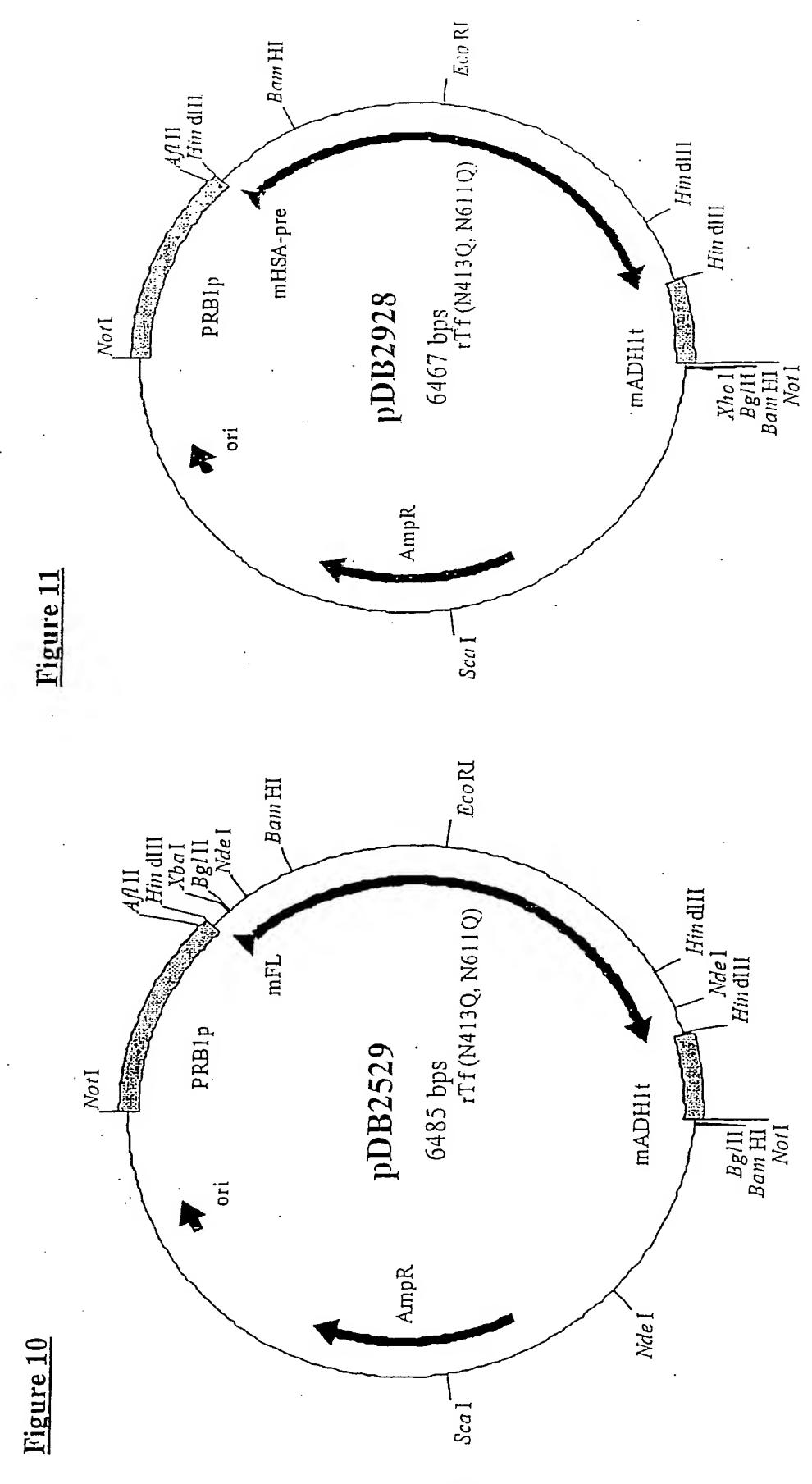
Figure 8

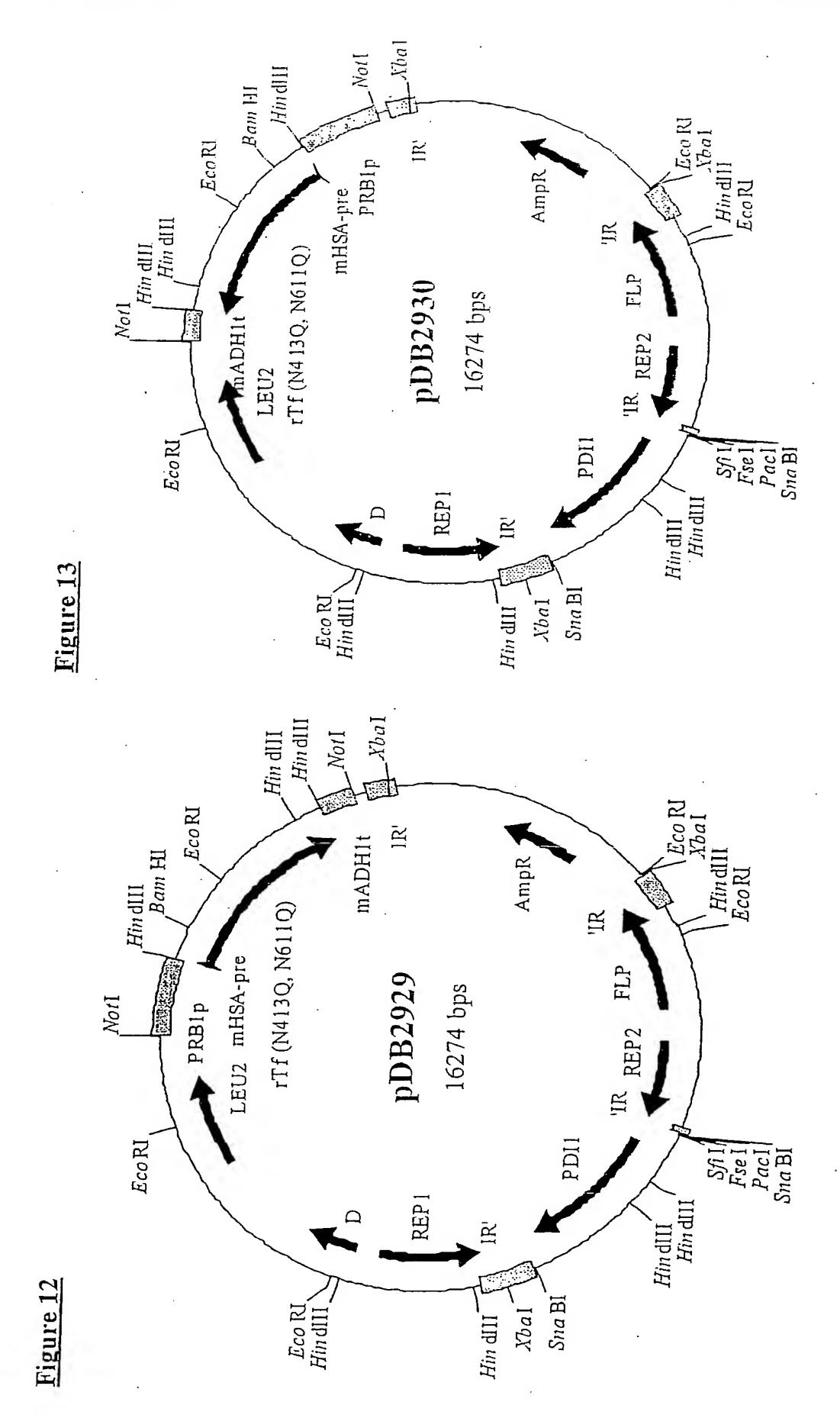
mFL = modified HSA(pre)/MF α 1(pro) fusion leader sequence

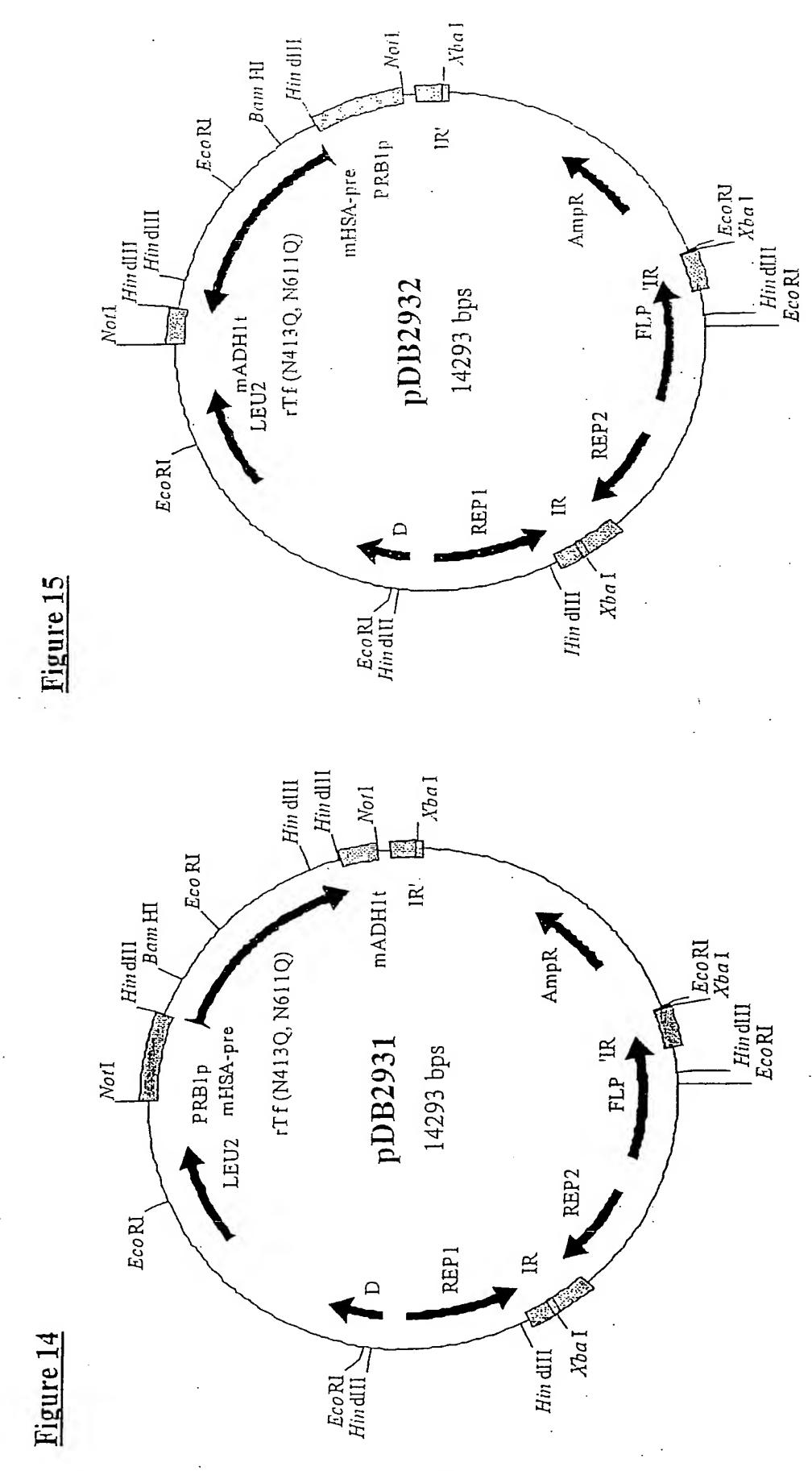
Eco R Ndel 4ft11 Hin d111 mHSA-pre = modified HSA-pre leader sequence Stul rTf (N413Q, N611Q) mHSA-pre Hin dIII PRBIP Acc I Hin dill Bam Idl pDB2921 5858 bps lac AmpR Sca I Bam HI $A_{f}^{A}II$ Hin dIII XbaI BgIIIModified Tf mFL Hin dl11 PRB1p pDB2515 5876 bps Jac Bam HI Hin dIII ori AmpR Xmnl

Figure 9

Scal







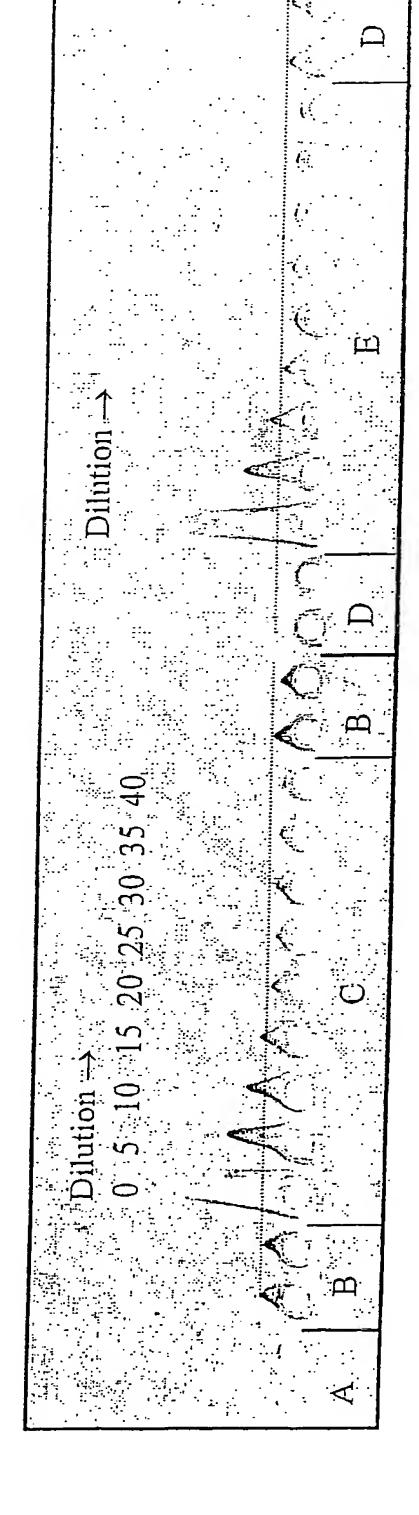
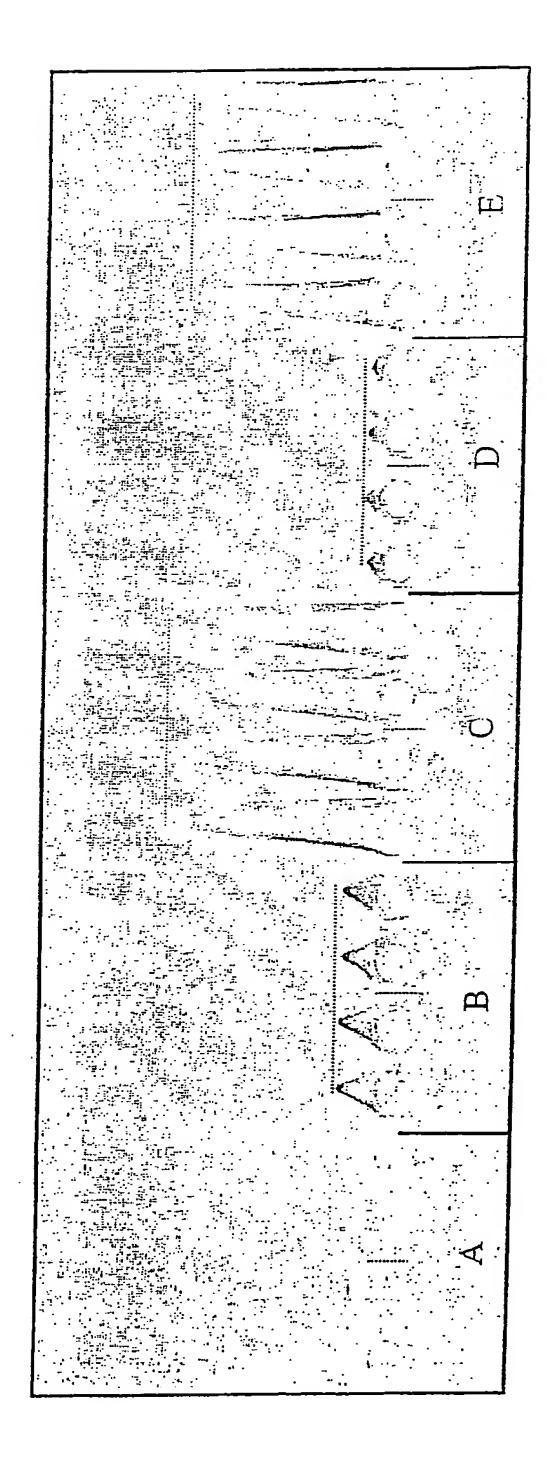
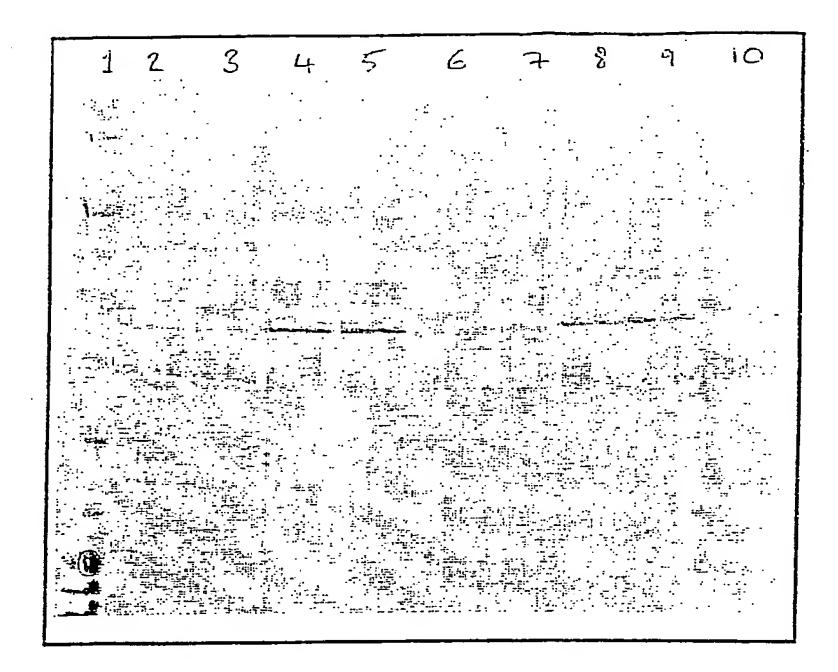


Figure 16



gure 17

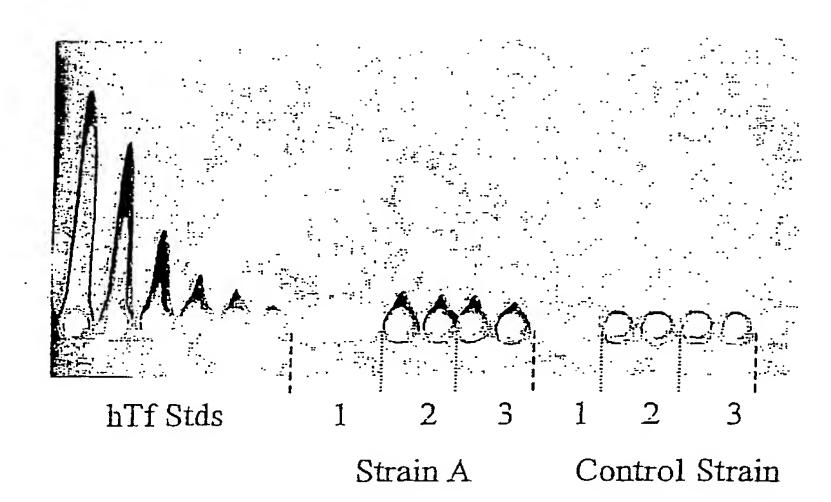
Figure 18



S

Figure 19

5



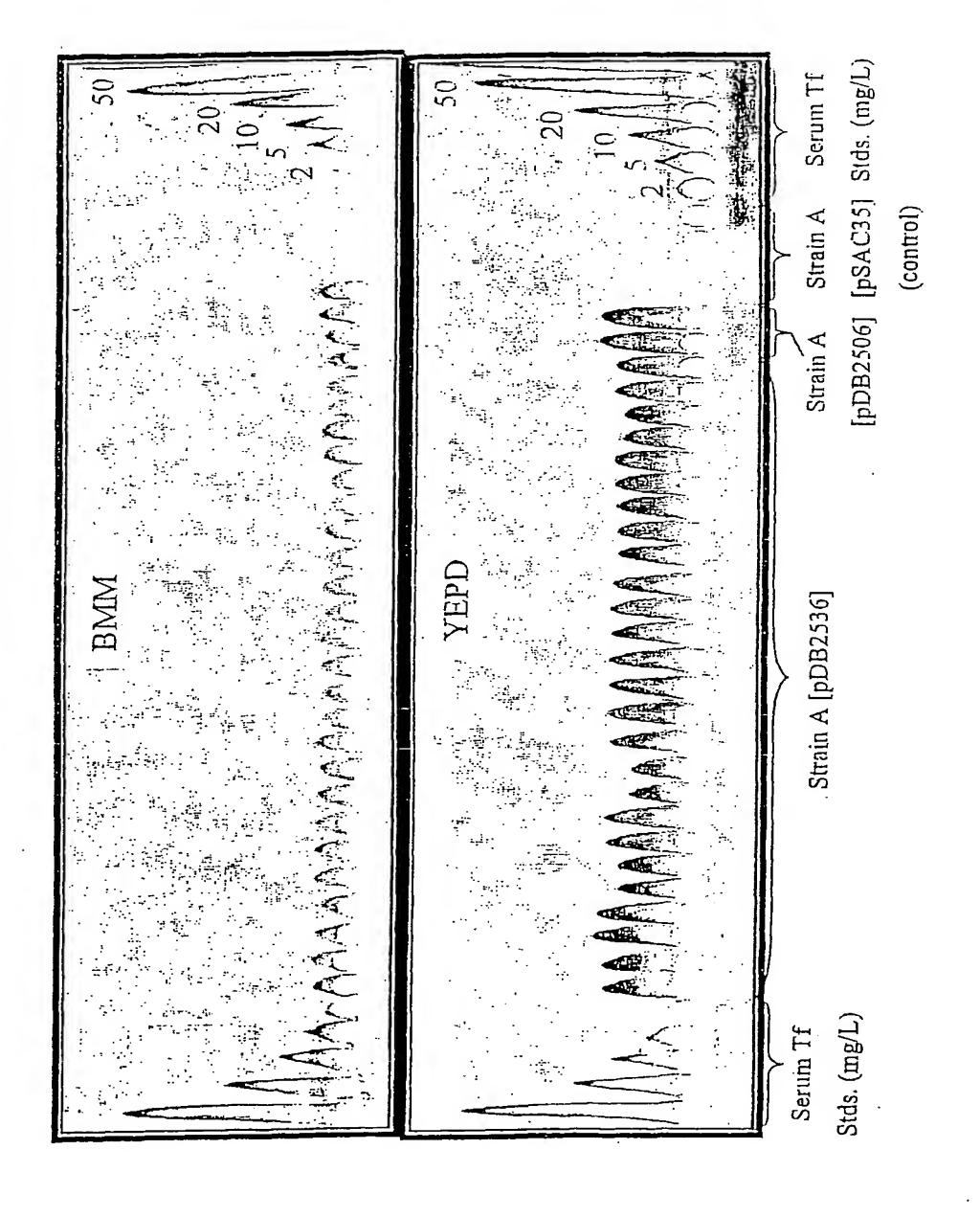


Figure 21

15

_		1 2 3 4 5	≈ Mol. Wt.
5			
	•		191kD
10			97l:Da
			64kDa
			51kDa

14/63

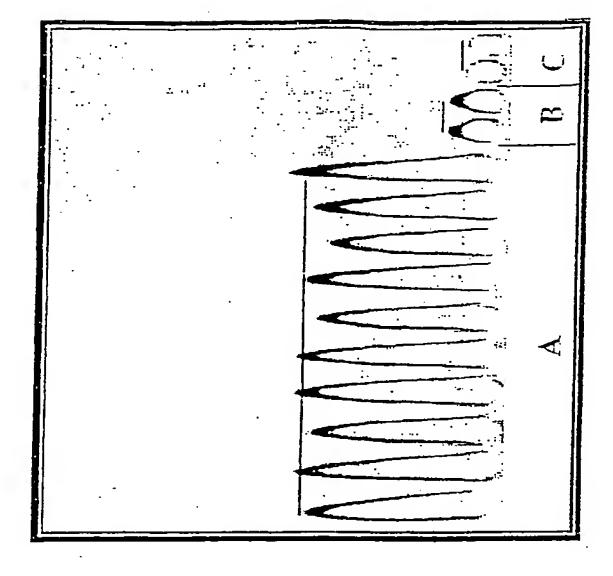
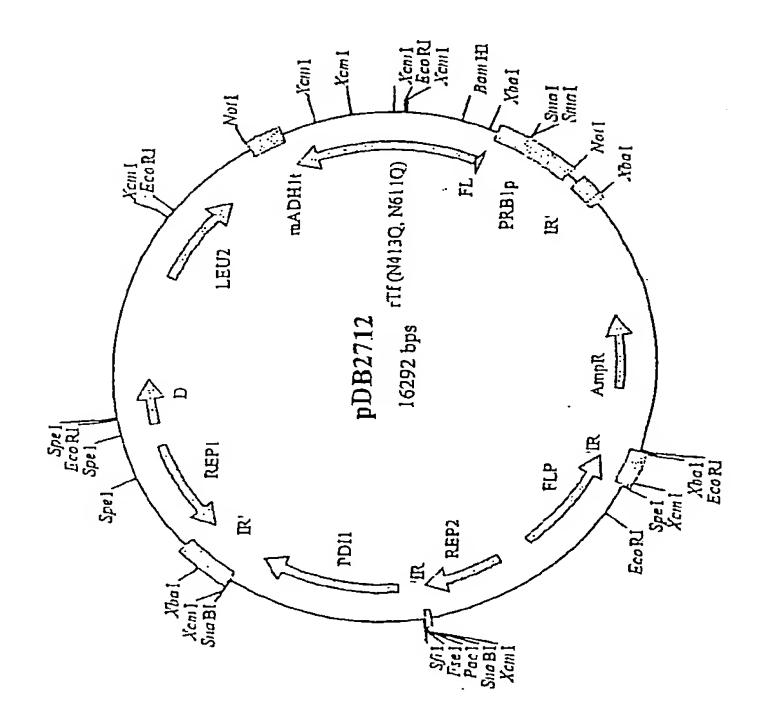
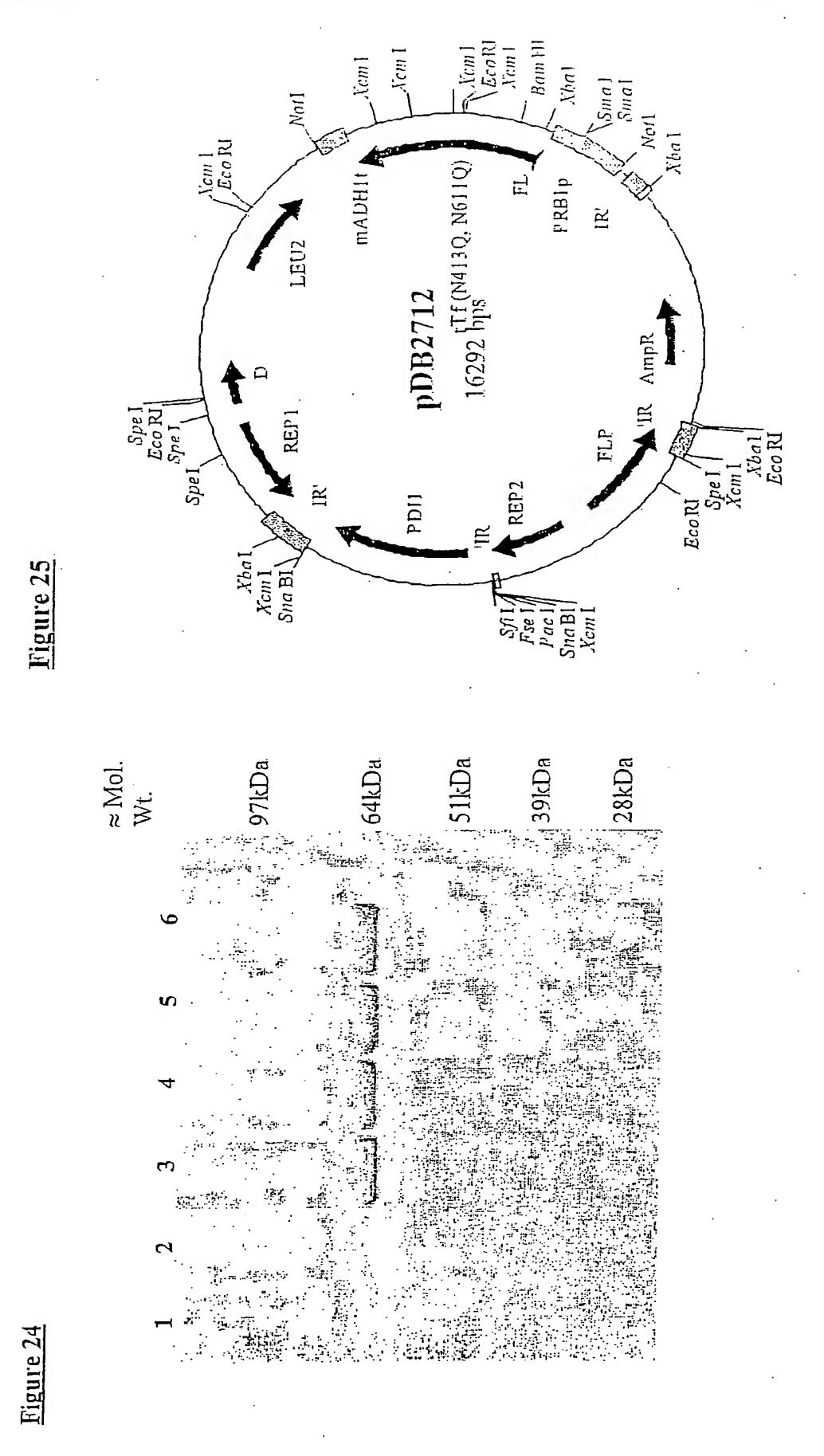
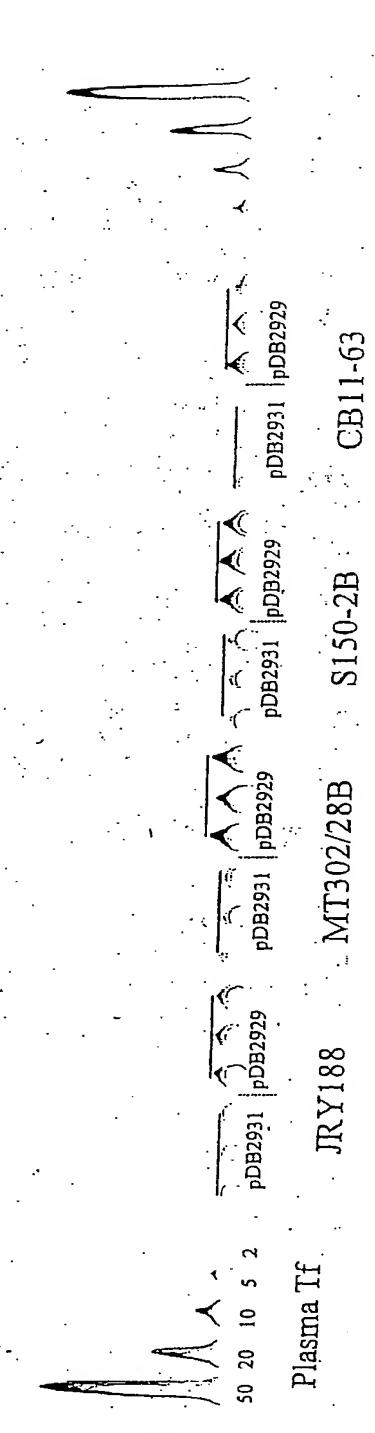


Figure 23







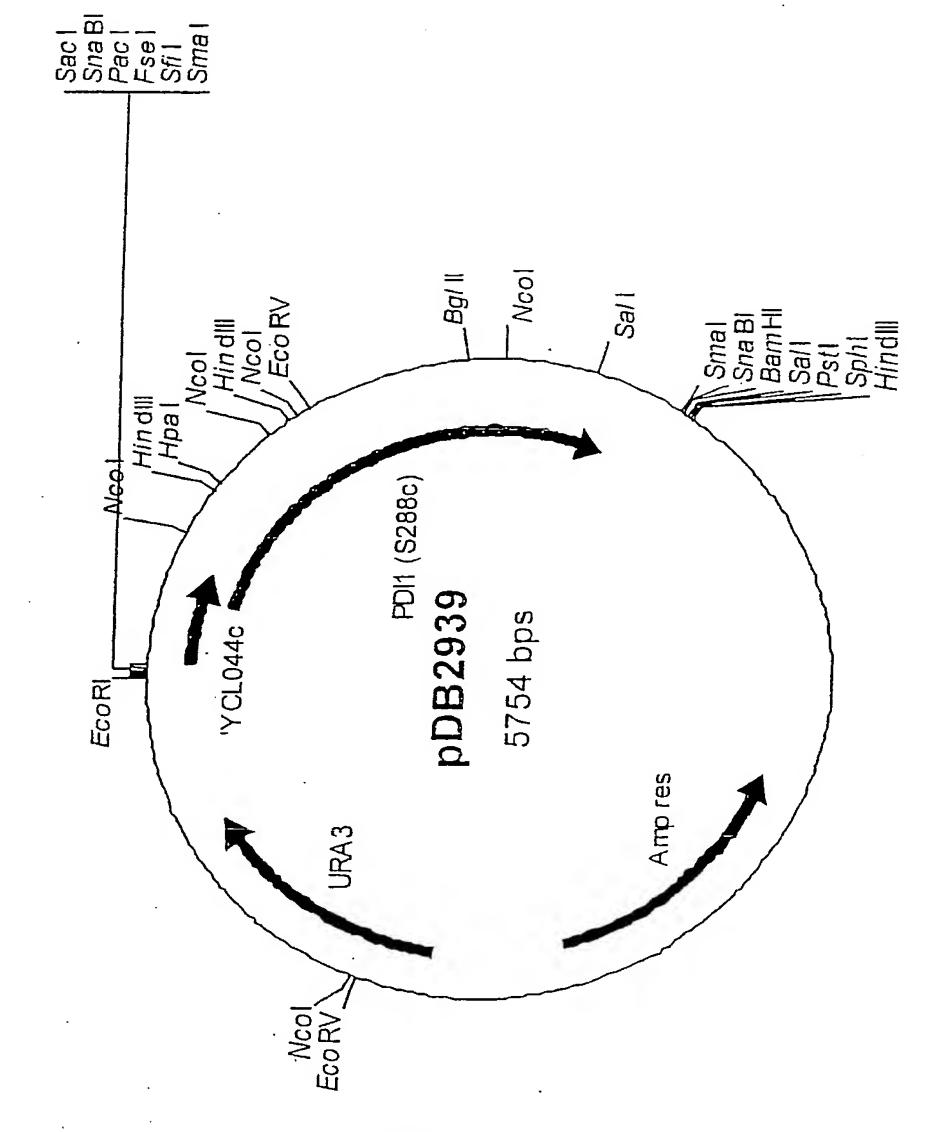


Figure 27

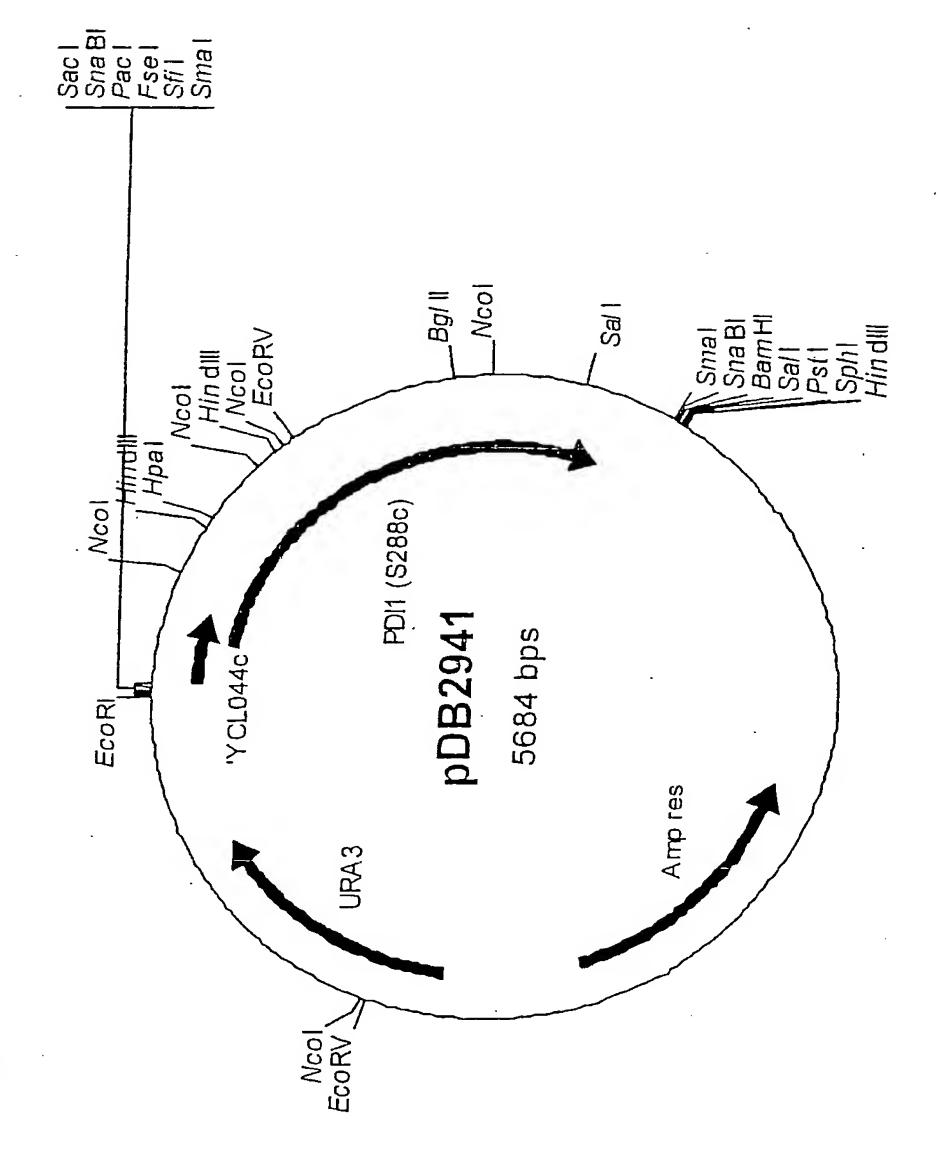


Figure 28

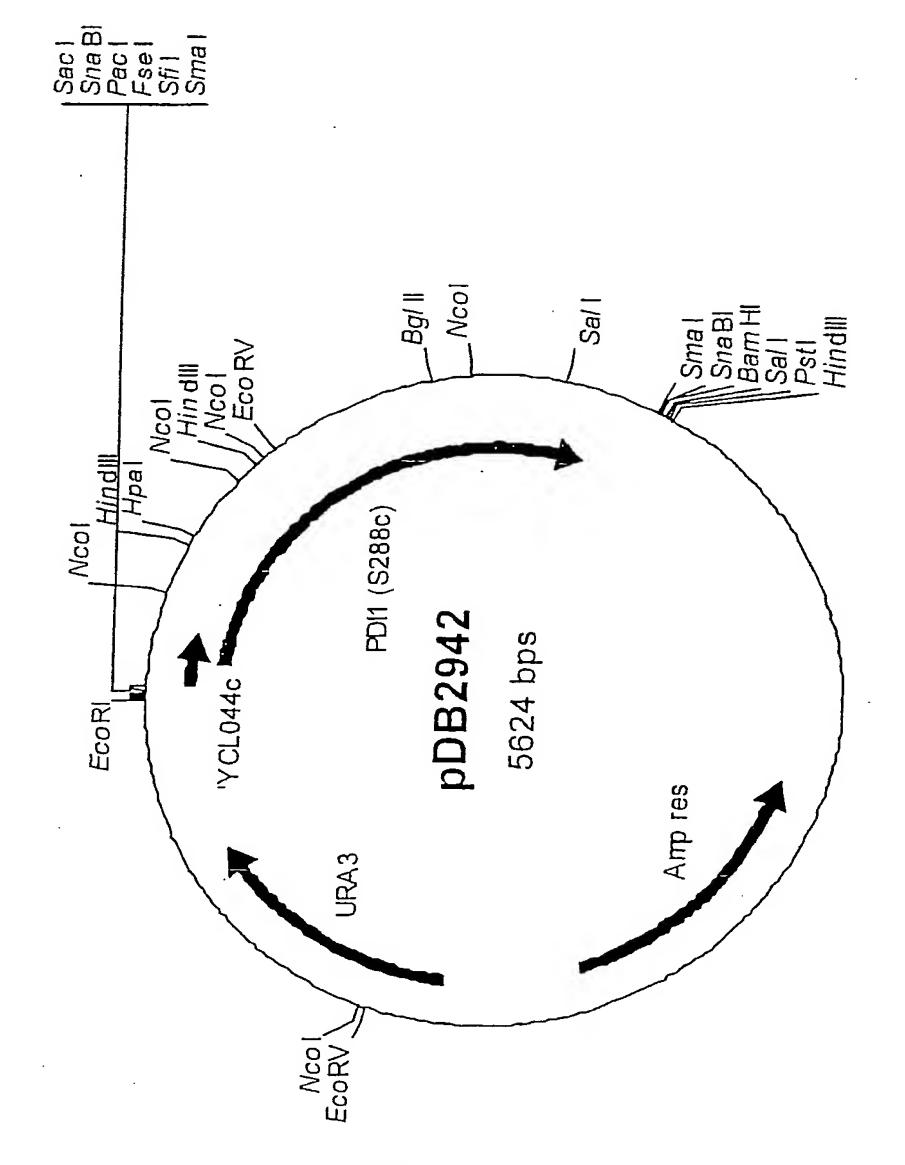


Figure 29

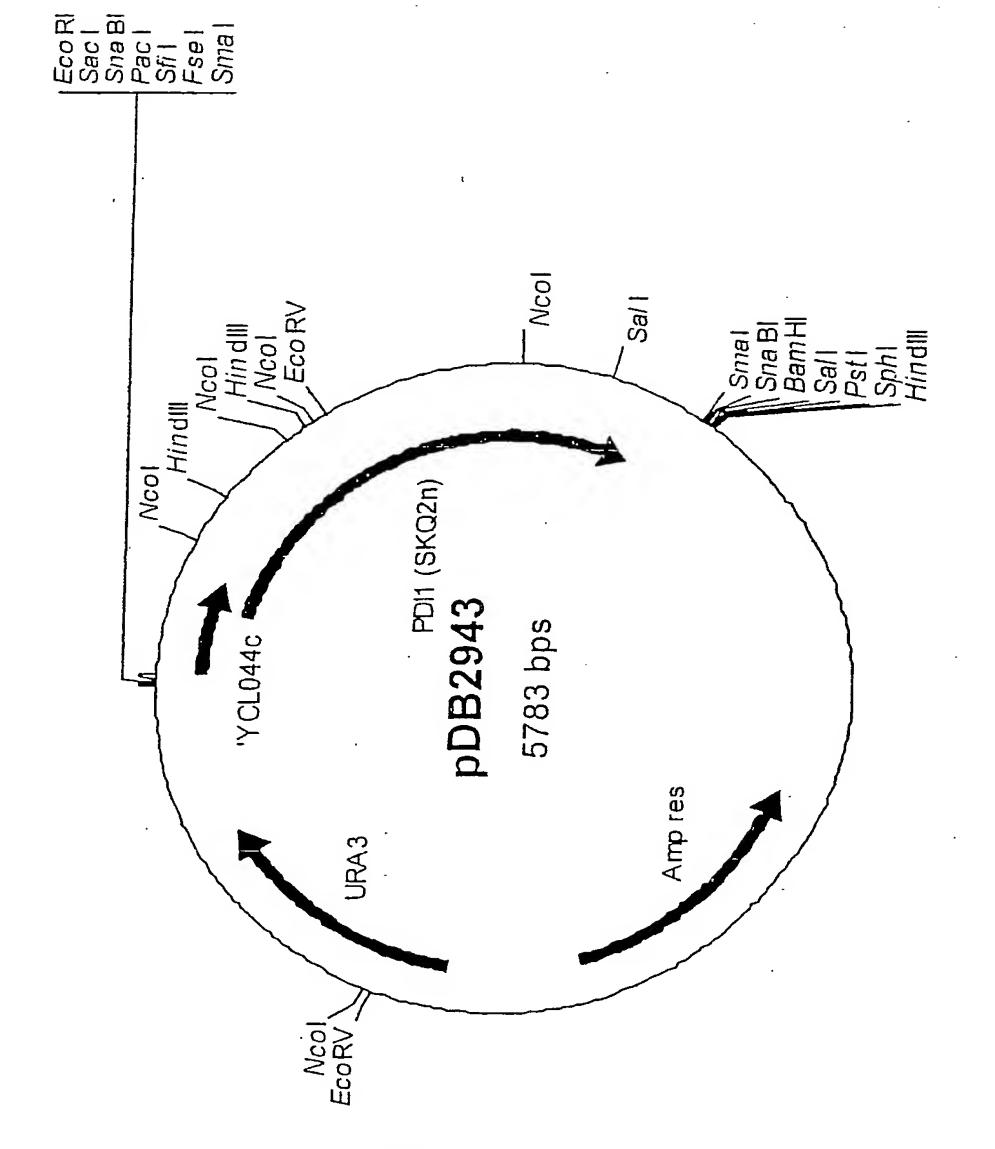


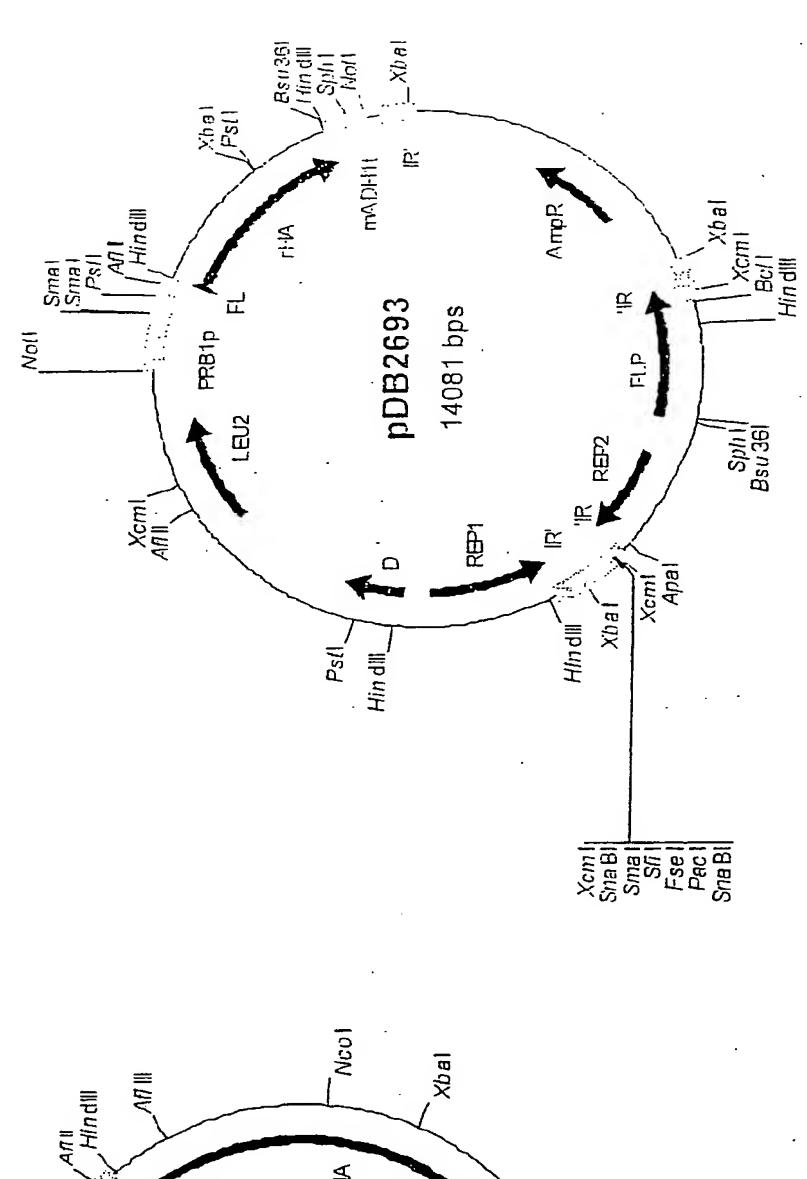
Figure 30

Figure 31

Amp res | EcoRV Ncol HindIII pDB2945 5649 bps Sall Bam HII Psti Sna BII Sphi Sma II Lii URA3 PDI1 (SKQ2n) Sal I YCL044c Ncol Figure 32 Small Sfill Fsell Pac I Sna BI Eco RV Ncol HindIII Hin dIII Ncol

EcoRV
Nool
Hin dill
Nool
Nool
Small
Small
BamHIII Pst1
Small
Hin dill
Nool
Nool
Small
Figure
Small
Figure
Small
Figure
Small
Figure
Small
Figure
Small
Figure
Nool
Nool
Nool
Nool

22/63



Scal Mae!

AmpR 6203 bps rHA Mindill Mae!

Nae!

Ample 6203 bps rHA Mindill Mae!

Nae!

Nae!

Nae!

Nae!

Nae!

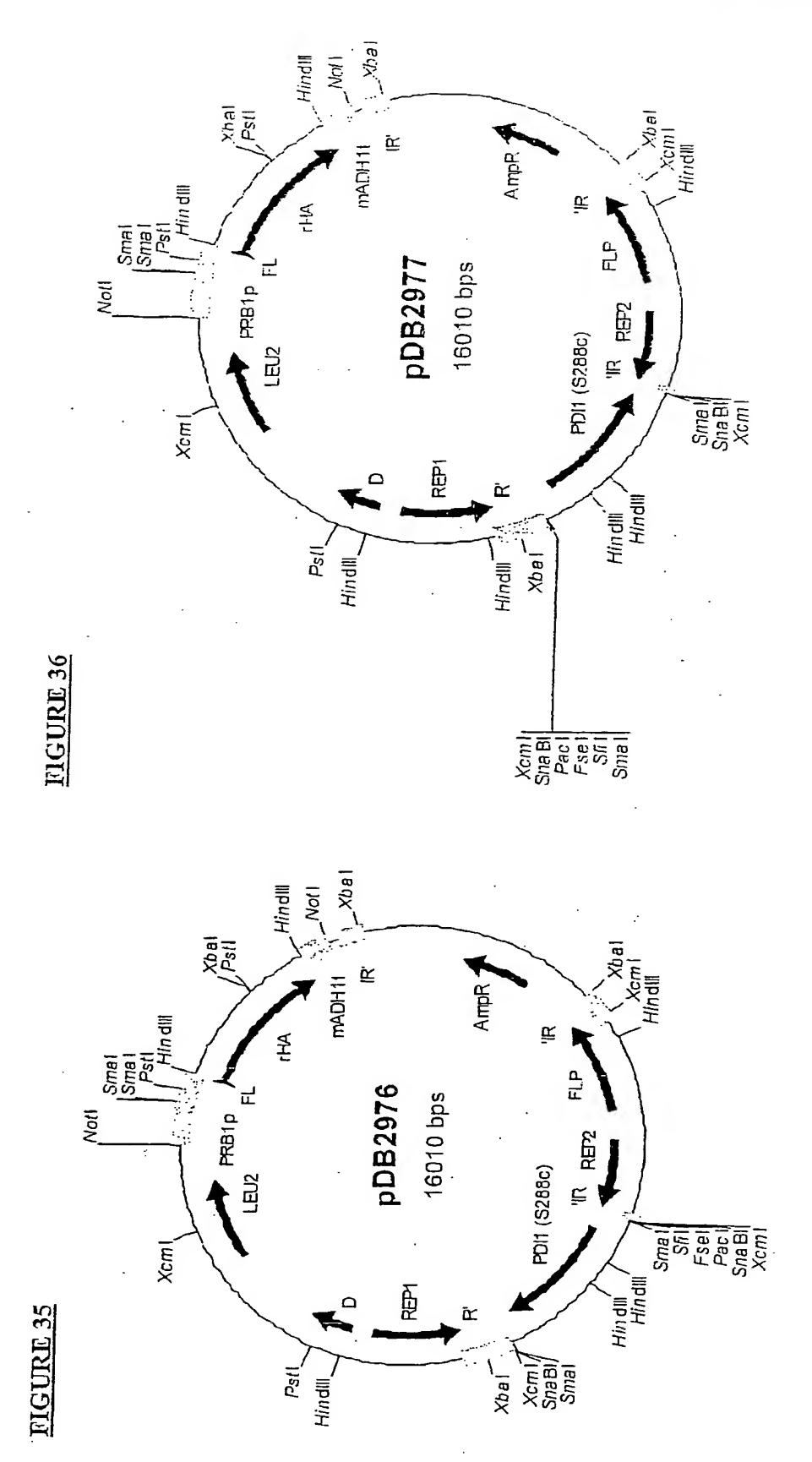
Nae!

Nae!

Nae!

Sph!

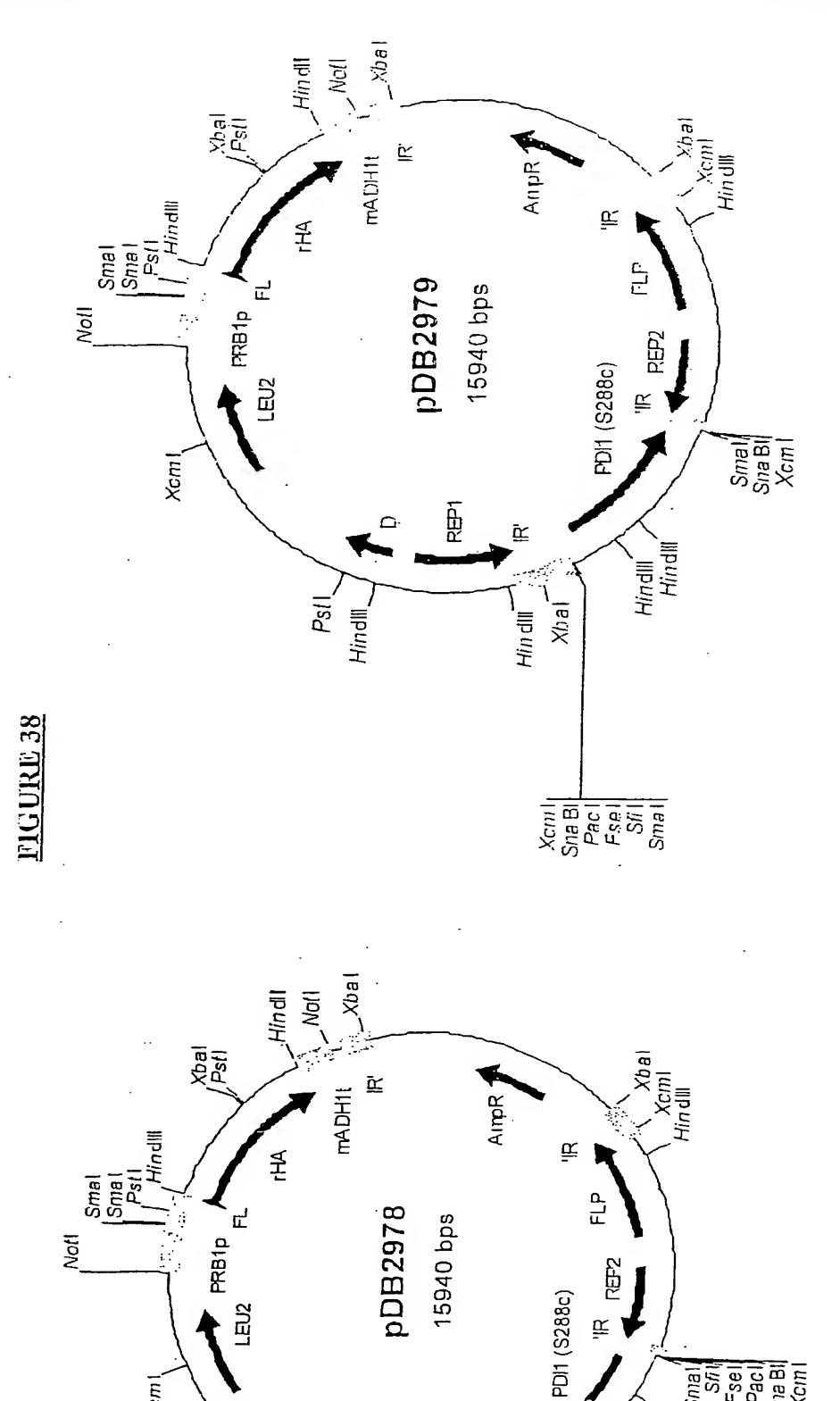
Mun!
Pac!
BamH!



Small Sfrig Fsell Pacll Sna Bil

HindIII /

Xcm1/ SnaB1/ Sma1



25/63

Psti

HindIII

REPA

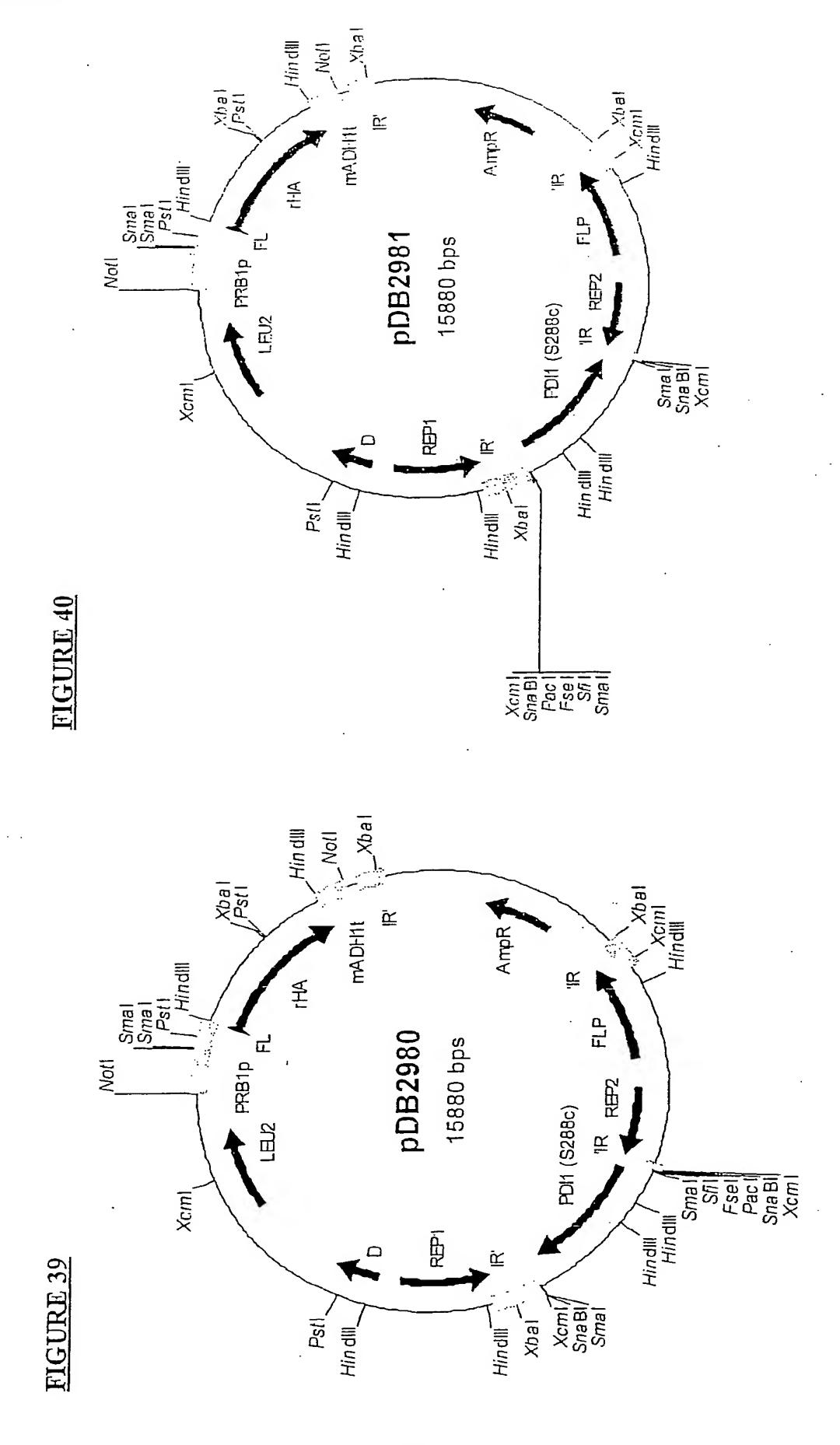
 $\overline{\overline{\kappa}}$

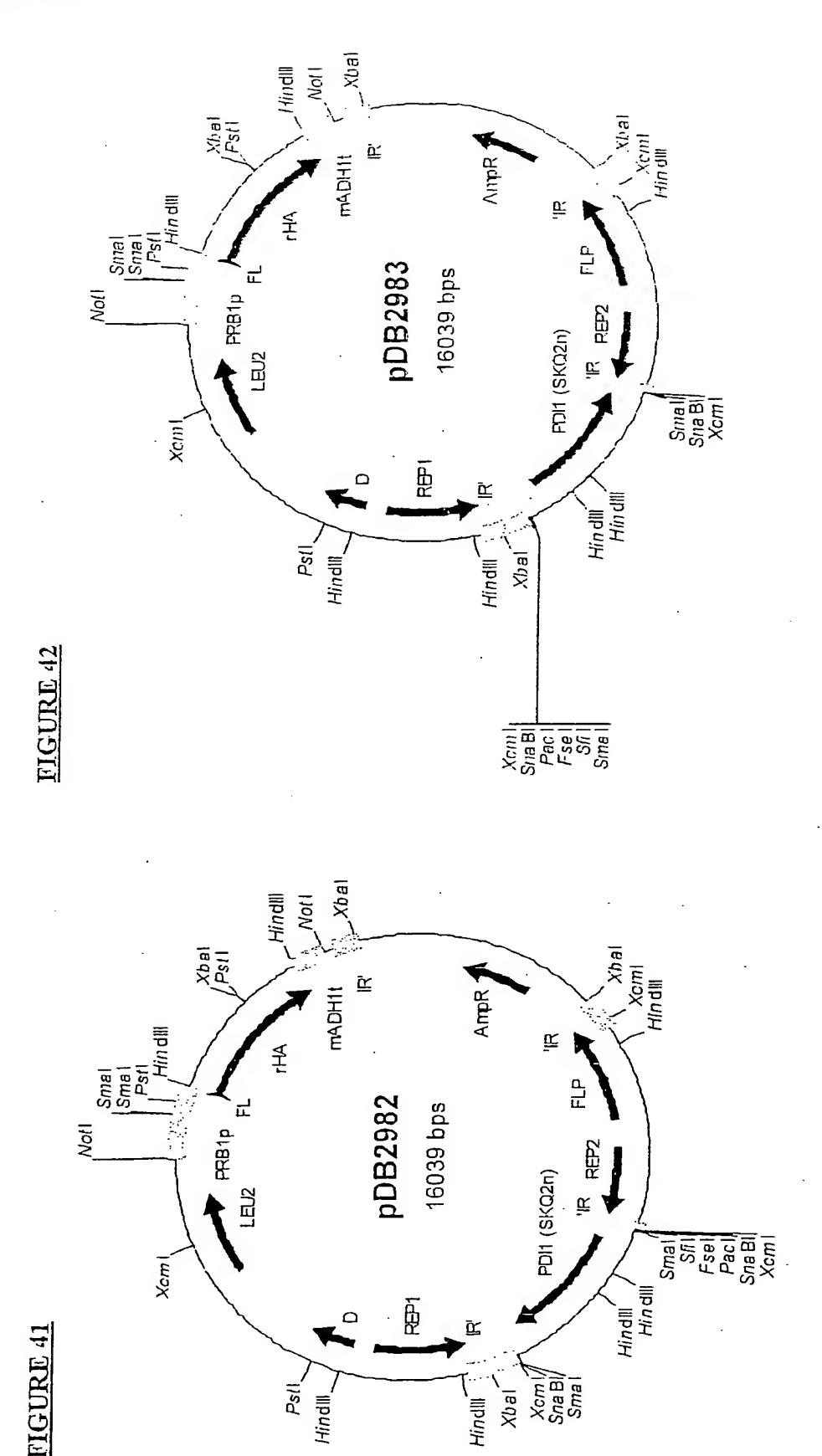
HindIII

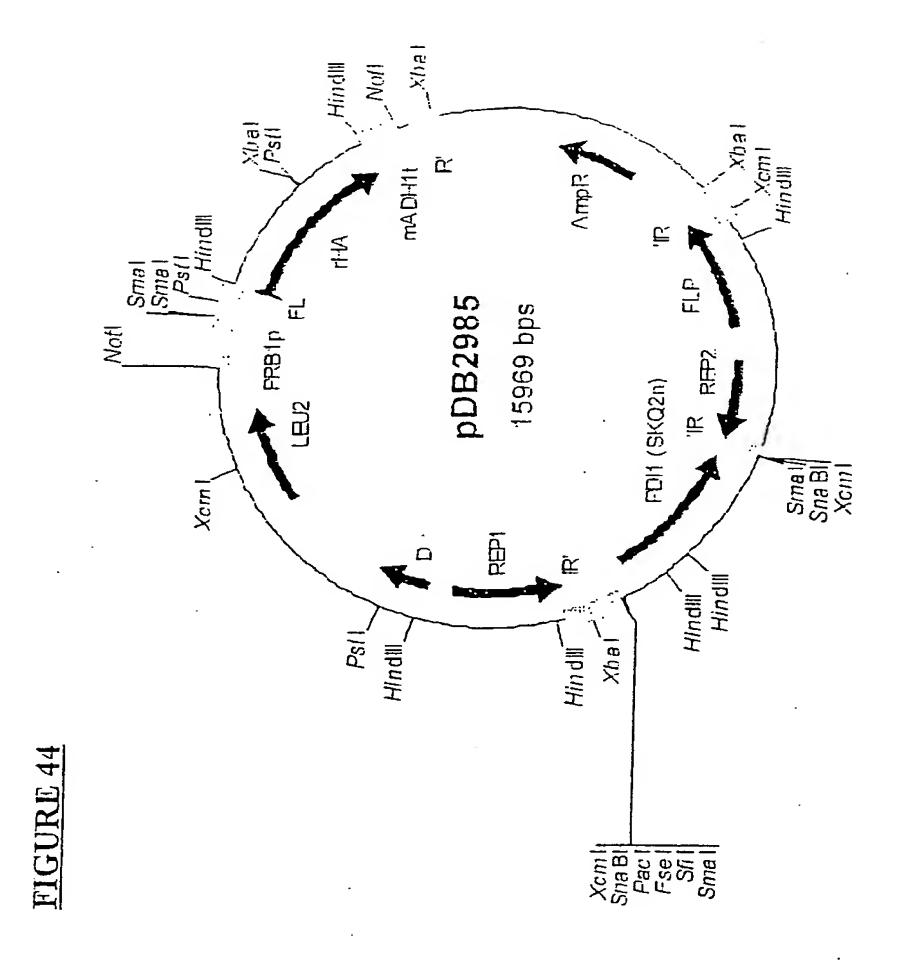
Xbal

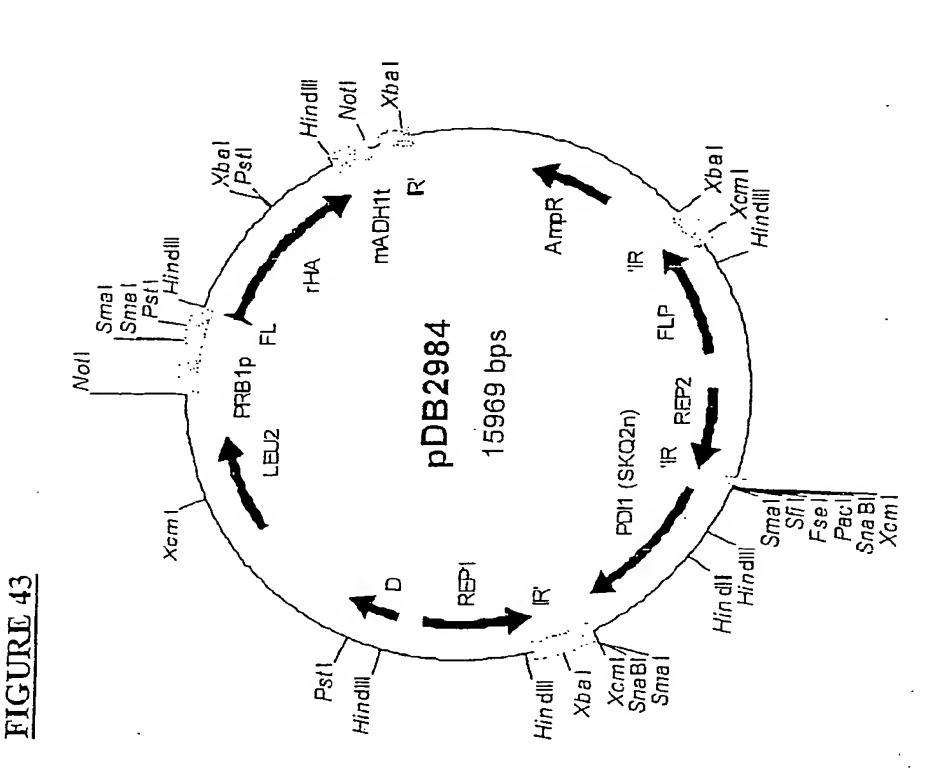
Xcm1

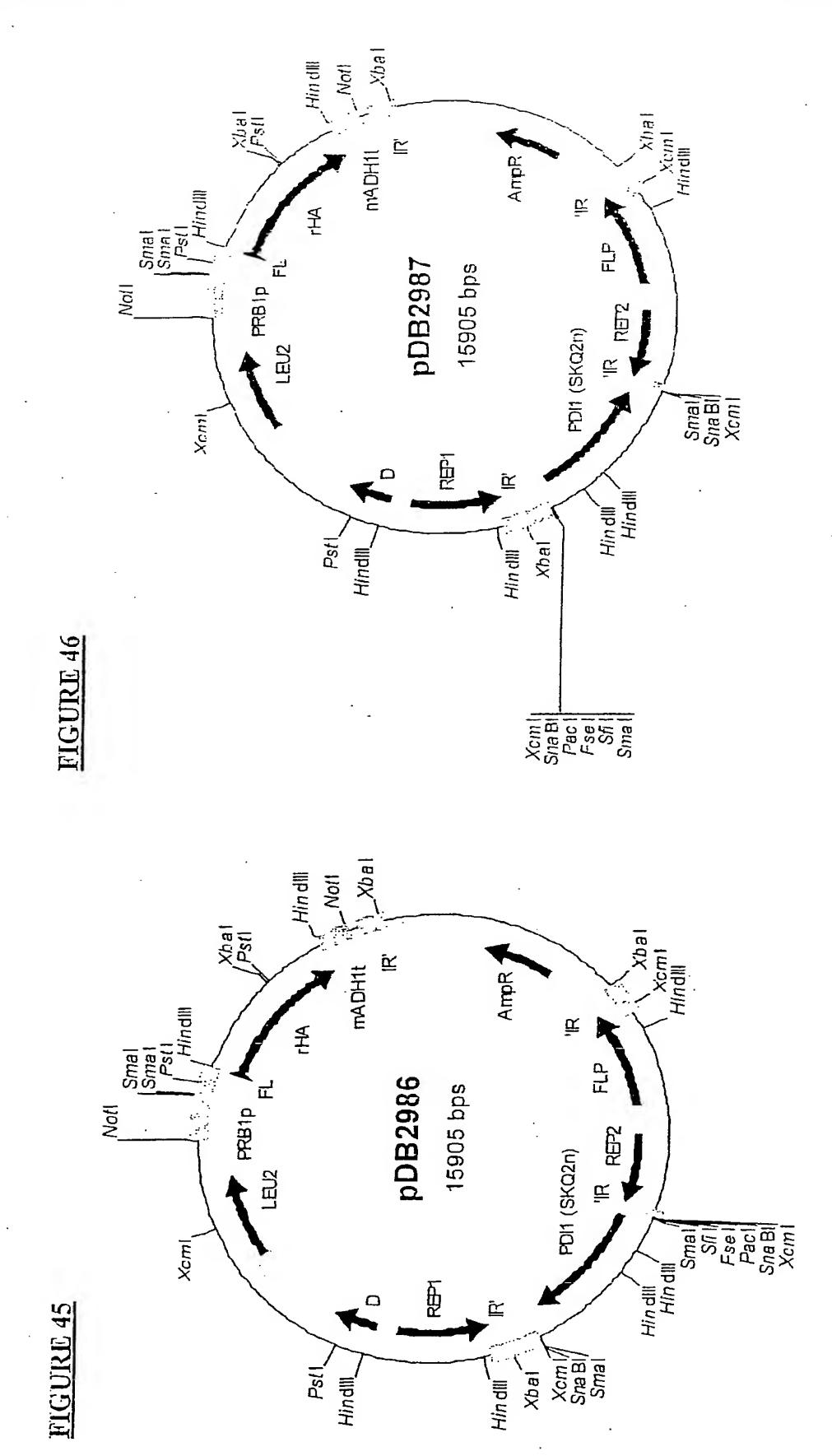
FIGURE 37

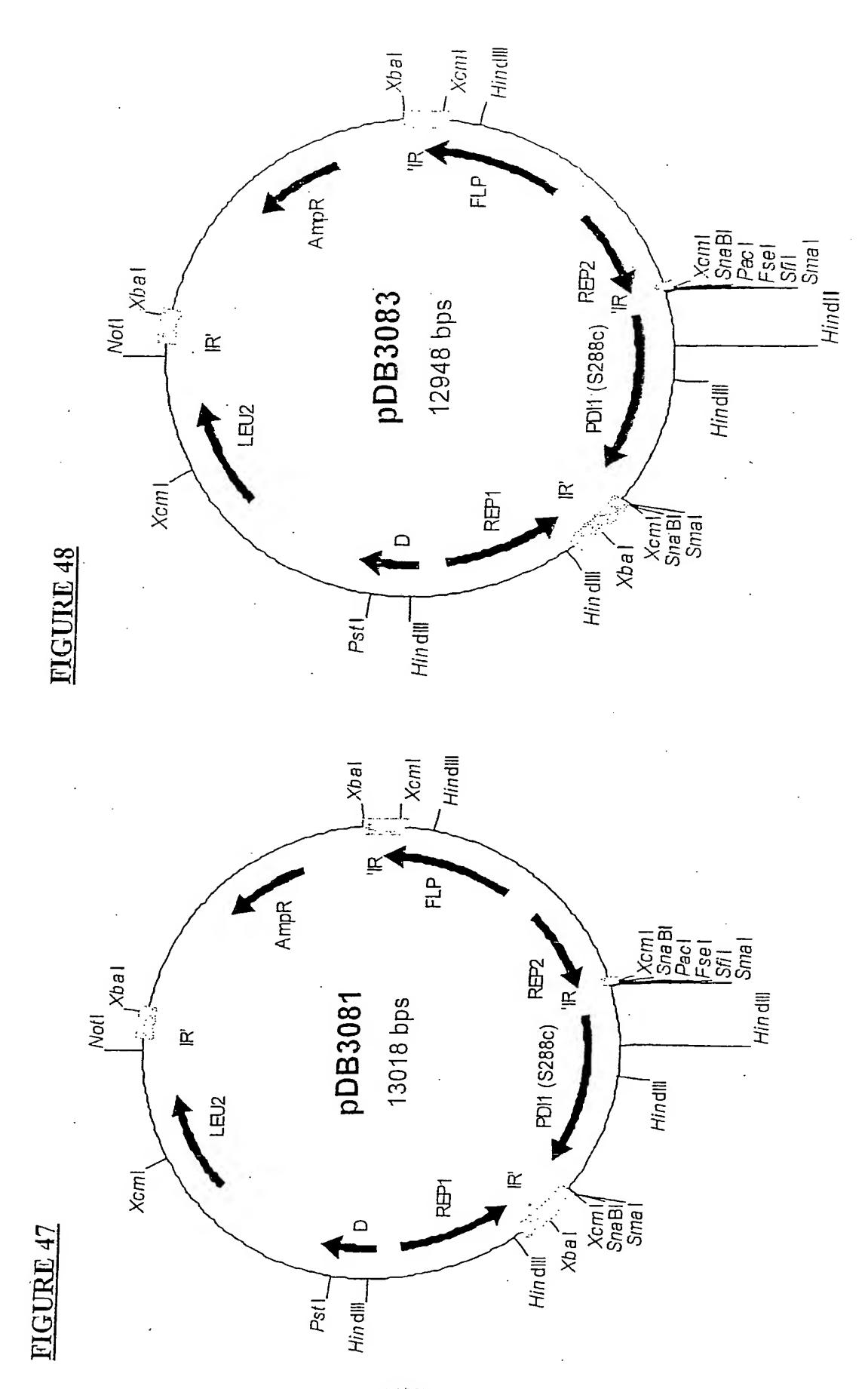


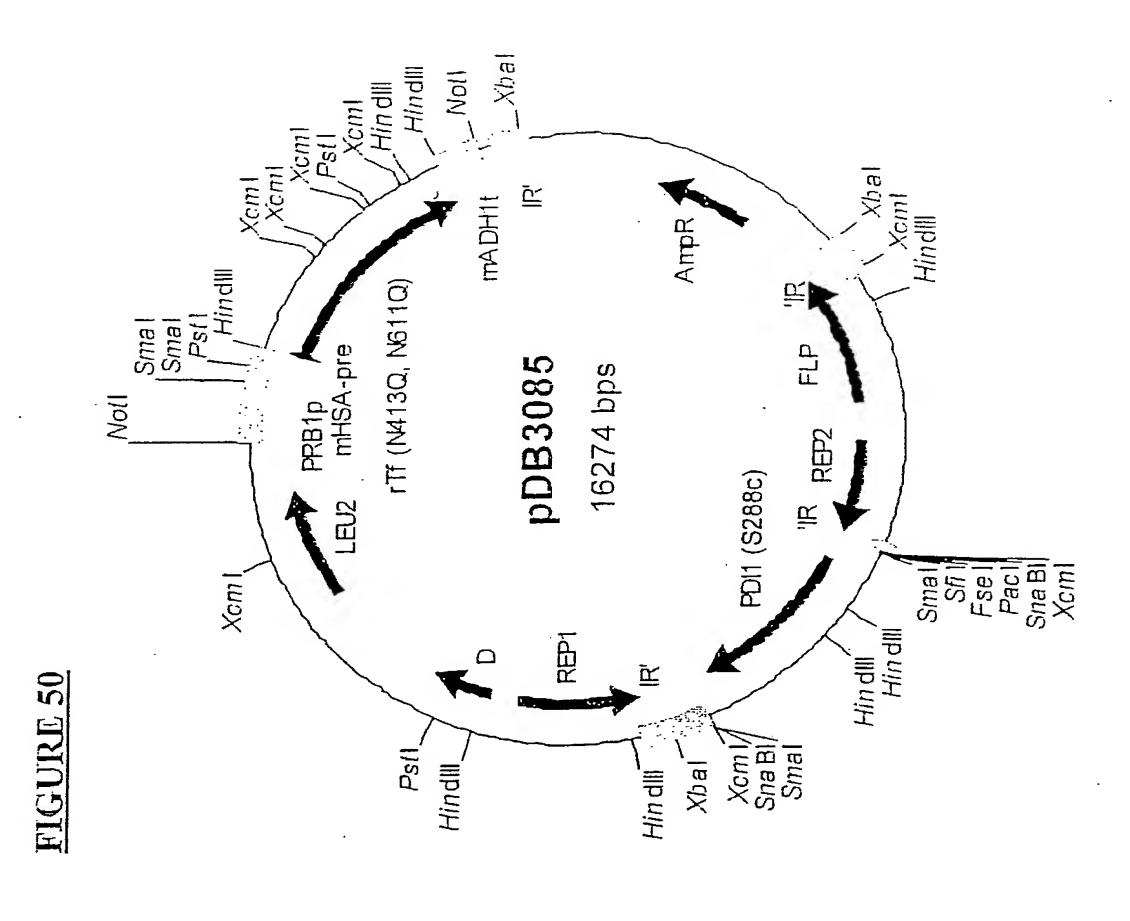


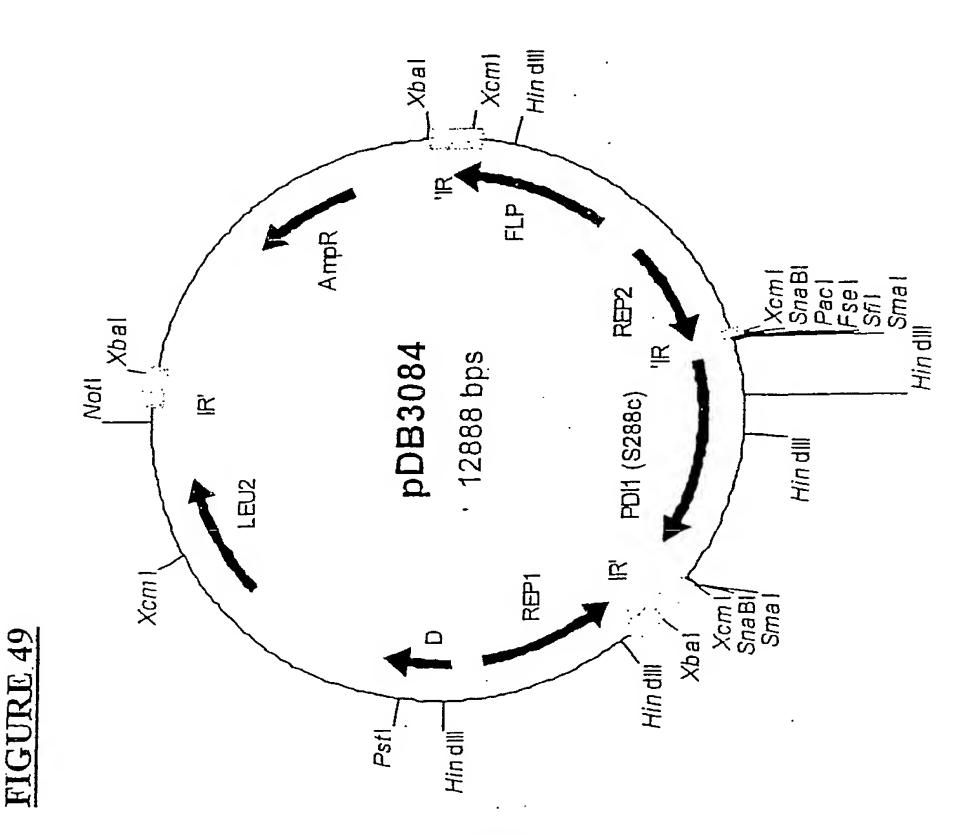


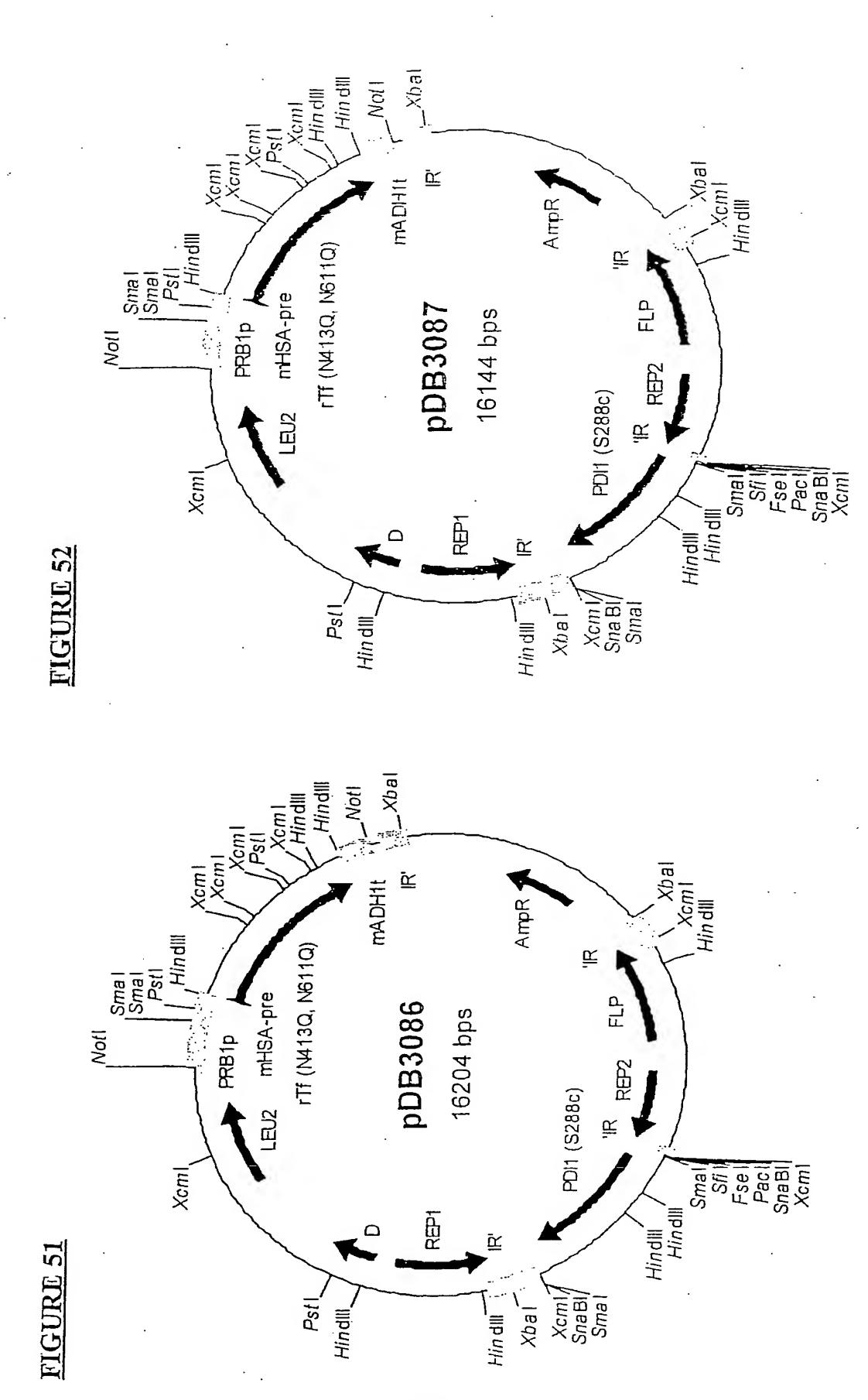


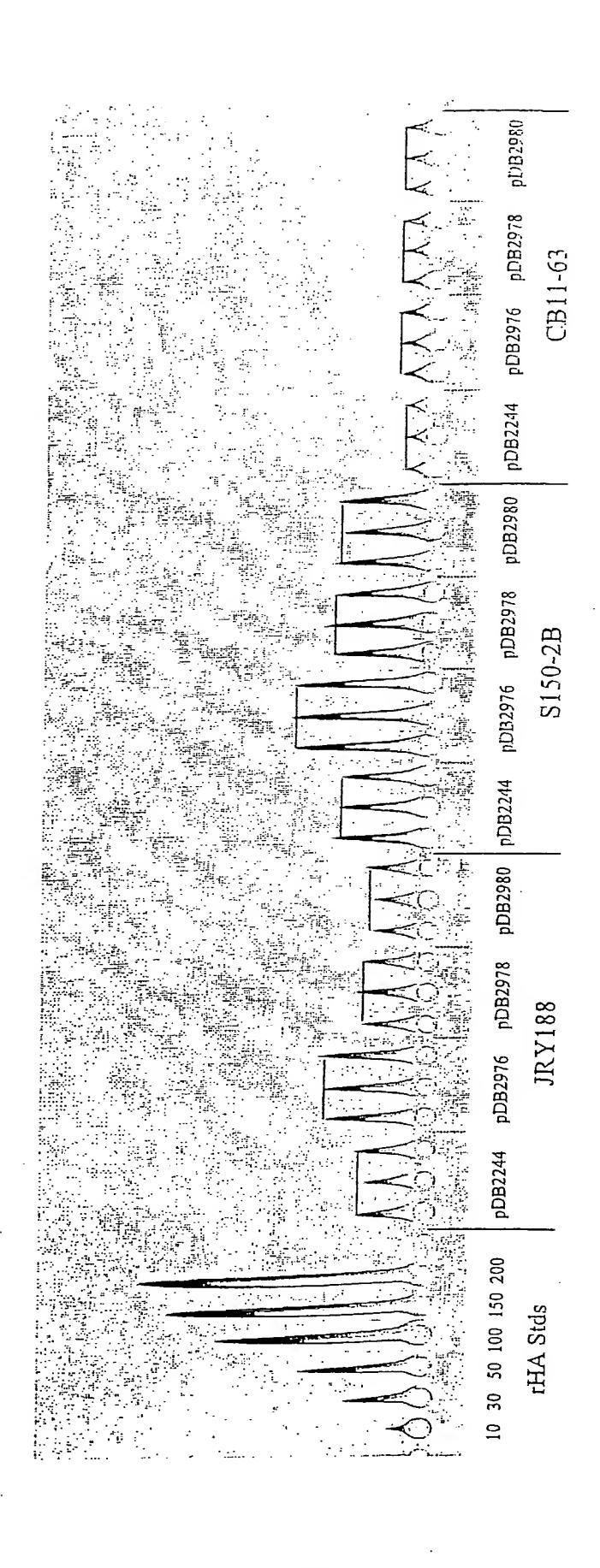


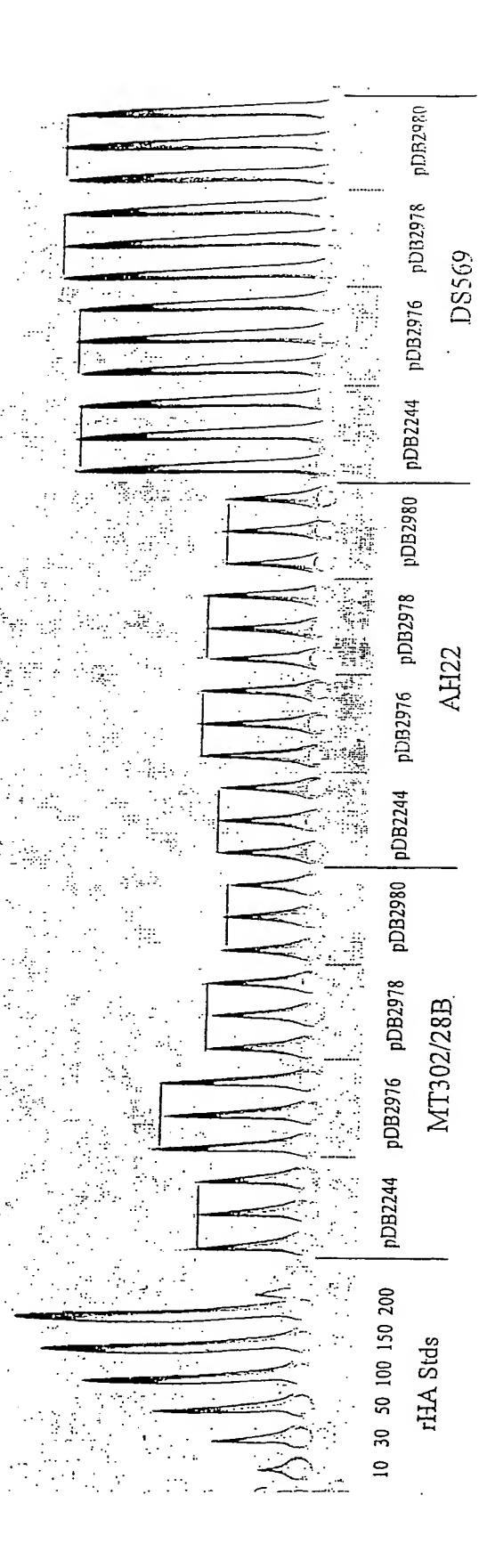












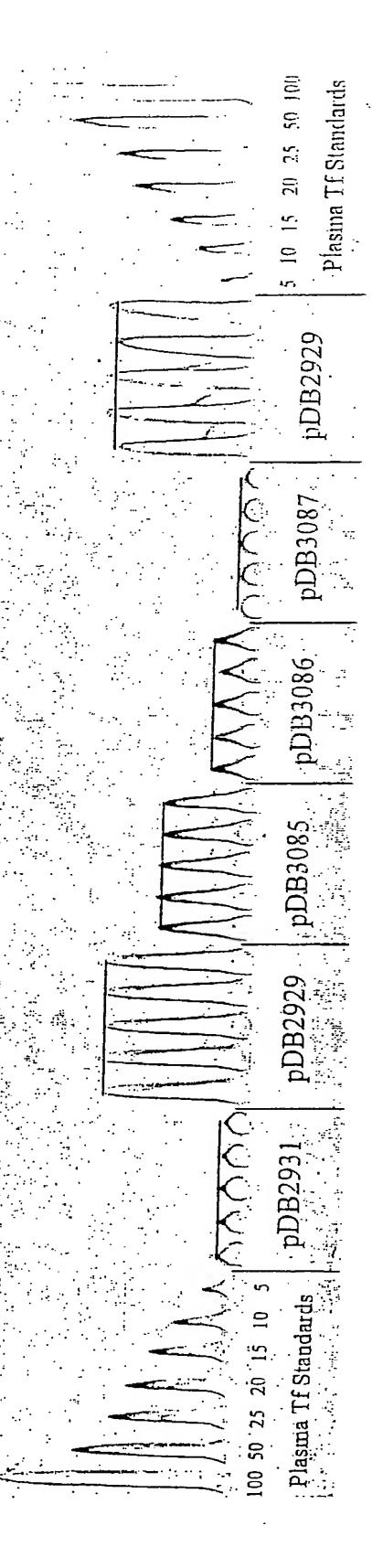


FIGURE 55

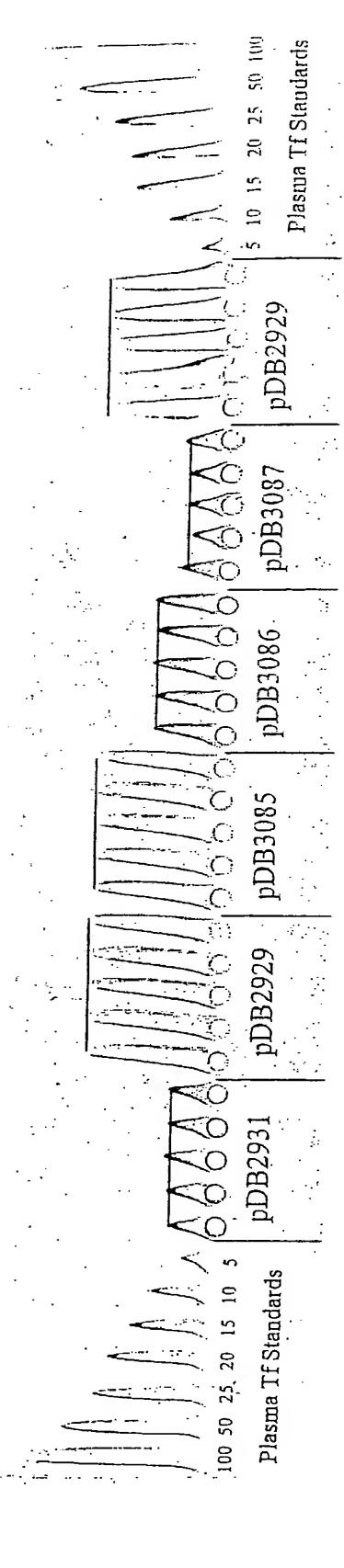


Figure 56

Eco R. mADHII Ampr 🖄 Fusion Lender Endostatio FLP pDB3100 FRBIP Norl 16559 R.EP2 Eco RV Eco RI PDII Syll Fise I Fac I Sna Bl Nco l Hin dill Sna Bl Sall Hin dIII

Eco RI Sali Eco RI Eco RI Eco RI Eco RI mADHIt IR' AmpR 🚿 rHA Eco NSma 1 |Sma 1 Endostatin Fusion Leader LEU2 Hin dIII pDB3099 FLF PRB1p Not1 14578 Eco RV' | Sph I | Eco RV REP2 Eco RV Eco RI REPI Ncol Hin dIII Eco RI HindIII

37/63

FIGURE 57

Eco RV

 $\frac{Nco1}{Hin dili}$

 $Eco\,\mathrm{RV}/$ $Nco\,\mathrm{I}/$ $Hin\,\mathrm{dill}/$

Nco I

.Sa/1

Sna BI

Sph I Eco RV

Sfil Fise 1 Pac 1 Sna BI

Ncol

Nor1

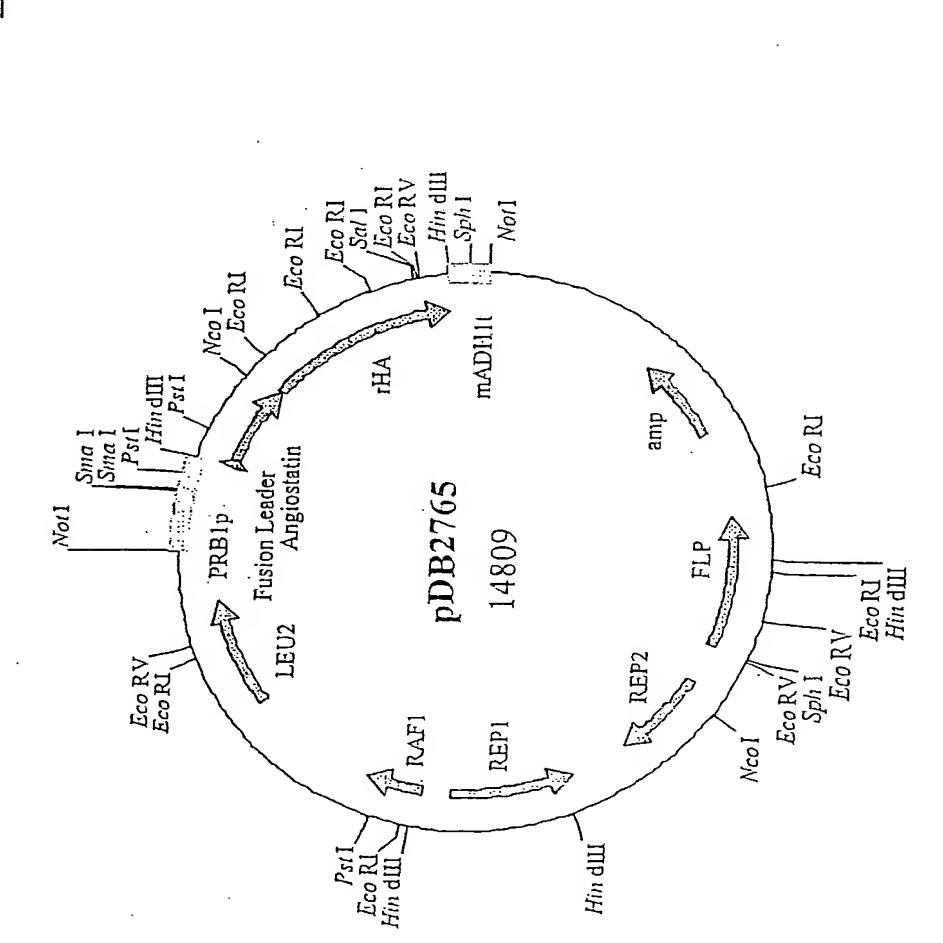
Neel EcoRI

Angiostatin

Fusion Leader

PRB1p

Eco RV Eco RU



 $\vec{\succeq}$

AmpR 🔏

FLP

REP2

mADHH

pDB3107

16790

REP1

只

HindIII

Eco RI HindIII

Neo I

mADHIt AmpR , Fusion Leader

Kringles

GS Linker Sma 1 Sma 1 FLP Norl 16292 REP2 Eco RI Sfil Fsel Pac I Sna Bl Hin dIII | Nco 1 REPI Neo 1/ Hin dill Nco I IR' Eco RV/ Neol Sal 1 Eco Ru HindIII Sna BI Hin dill

Hin dIII Sall Eco RI Eco RV Eco RI Eco RI Eco RI mADH1t Bam HI amp X Hin dill Eco RI **GS** Linker Fusion Leader Kringle5 Sma 1 Sma 1 Pst 1 HindIII Eco RI pDB2773 NotI PRB1p FLP 14311 Eco RV REP2 Eco RV Sph I LEU2 Eco RV Eco RI REPI Hin dlll Eco RI HindIII

FIGURE 61

Neo 1

Sfil Fsel Pacl Sna Bi

Neol

Eco RV // Hin dIII / Nco I Hin dIII

Eco RI

FLP

REF2

Neo I

Sal1

Sna BI

PDII

L Hindlil
LECO RU
ECO RV

AmpR 📜

m.A.DIIIt

pDB3102

REP1

 \exists

Hin du

Q

Eco RJ Hin dIII

16220

GS Linker

Fusion Leader DX-890

Eco R.I

Bam 14 Eco P.1

Eco RV Eco RI

Hin dill

Sma 1

Nor!

FIGURE 63

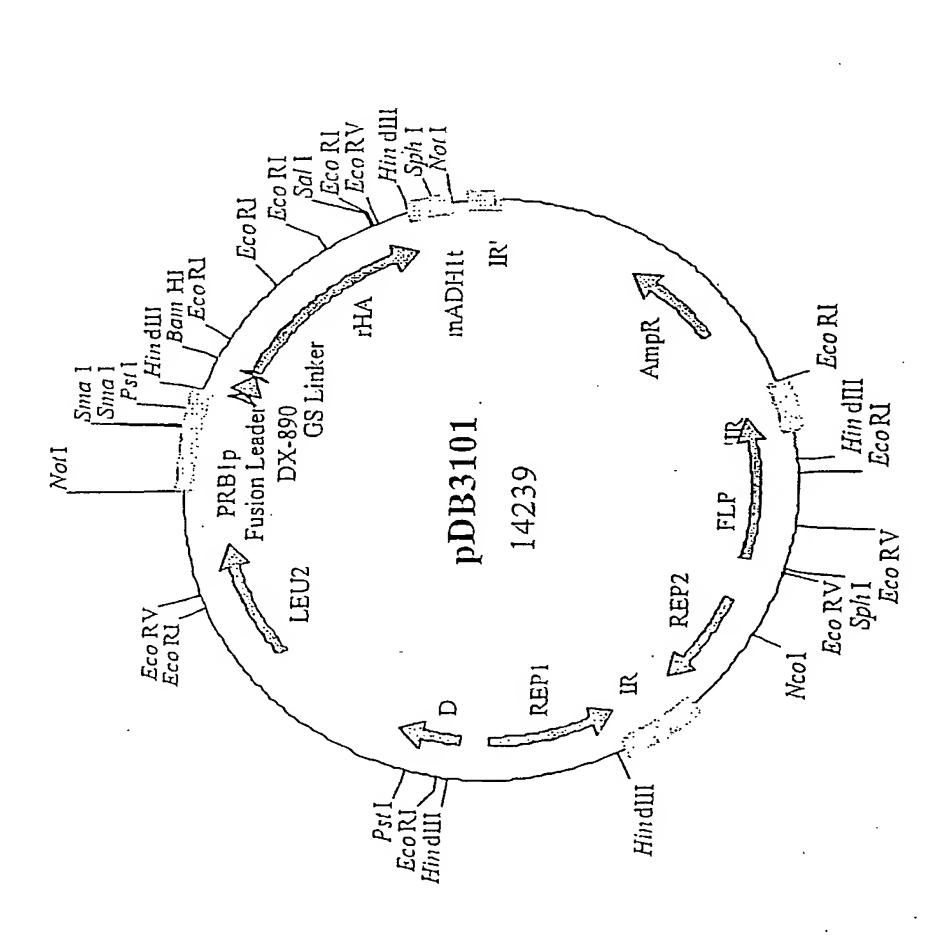
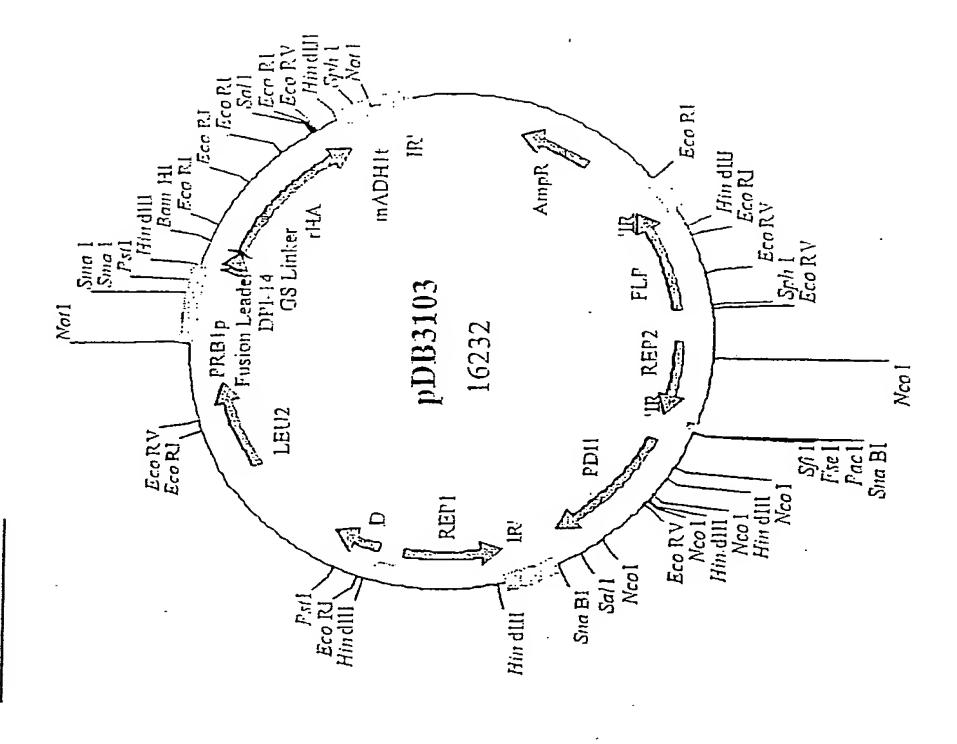
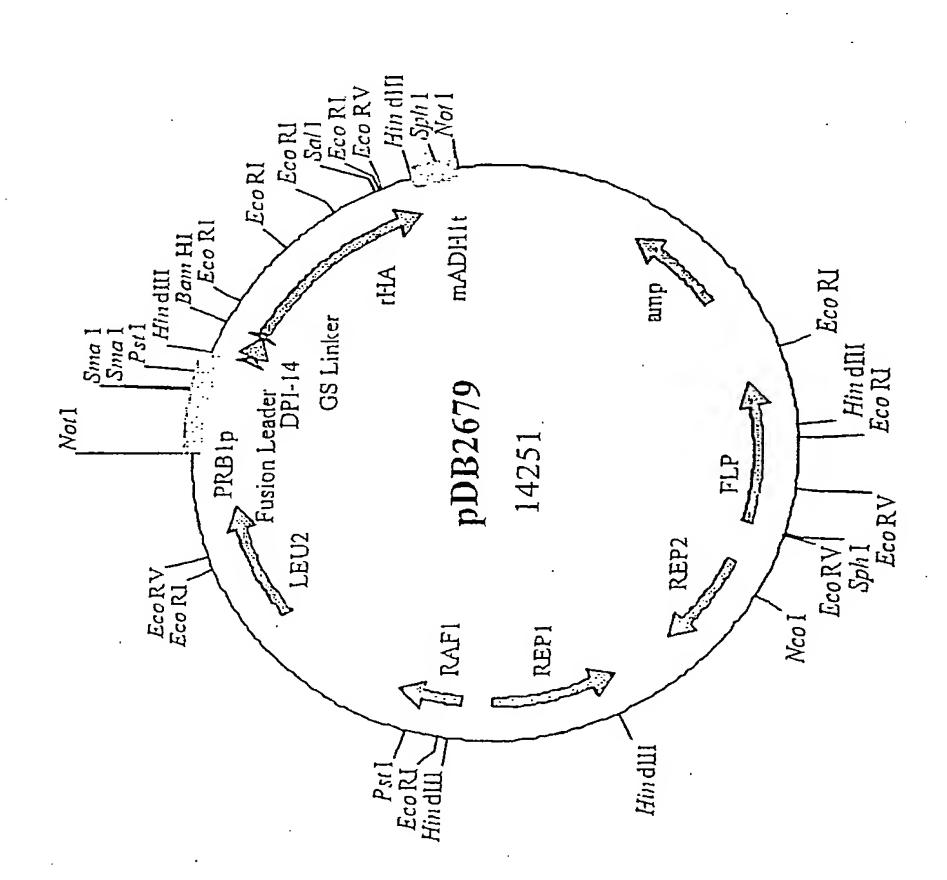


FIGURE 66





Bam III Eco RI

Yin dill

Eco.RV Eco.RI

Sma I Sma 1

Norl

Ncol

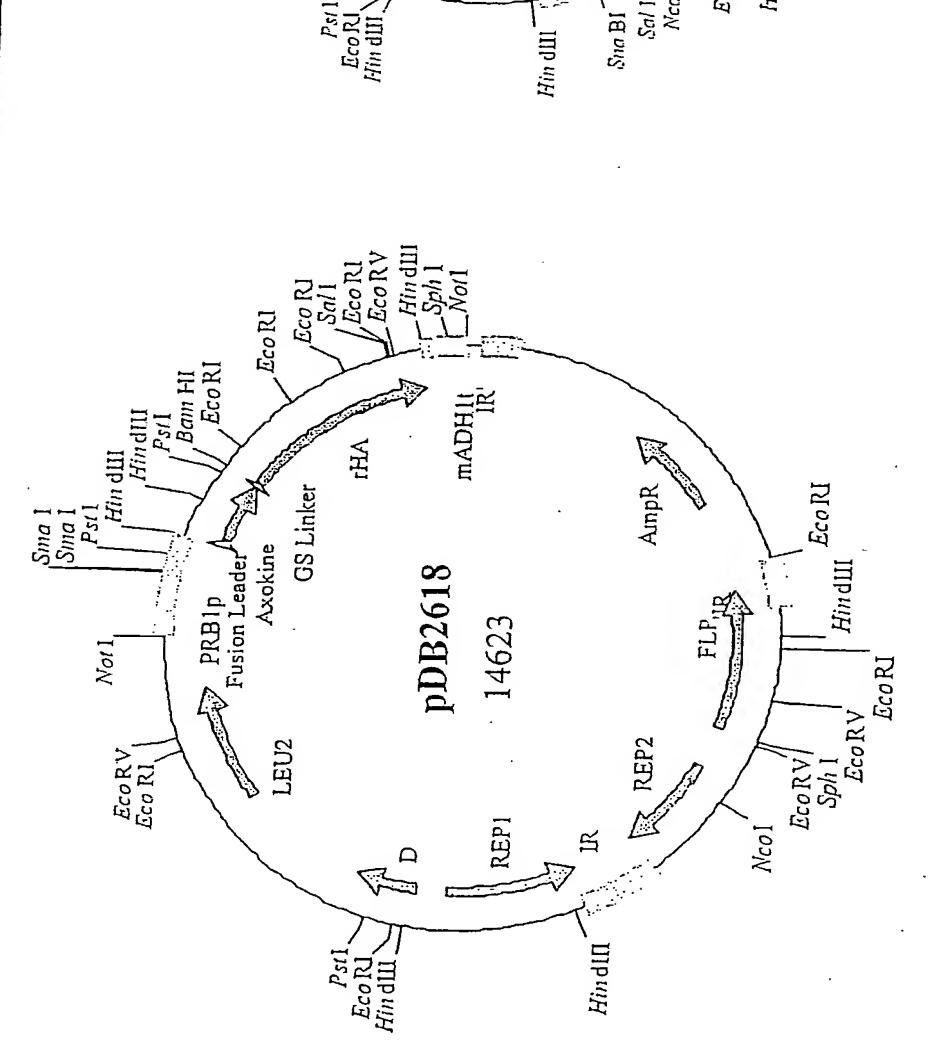
Sfil Fixe Pacl Sna Bi

Eco RI

Eco RV///
Ncol //
Hin dill /
Ncol //
Hin dill /

E.
I. Hin dill
Eco RV
Sph 1
Eco RV

FIGURE 67



凡

Aumpr A

PDII

Neol

Sal 1

Sna BI

Ĭ

FLP

REP2

mADH10

pDB3106

 \Box

16604

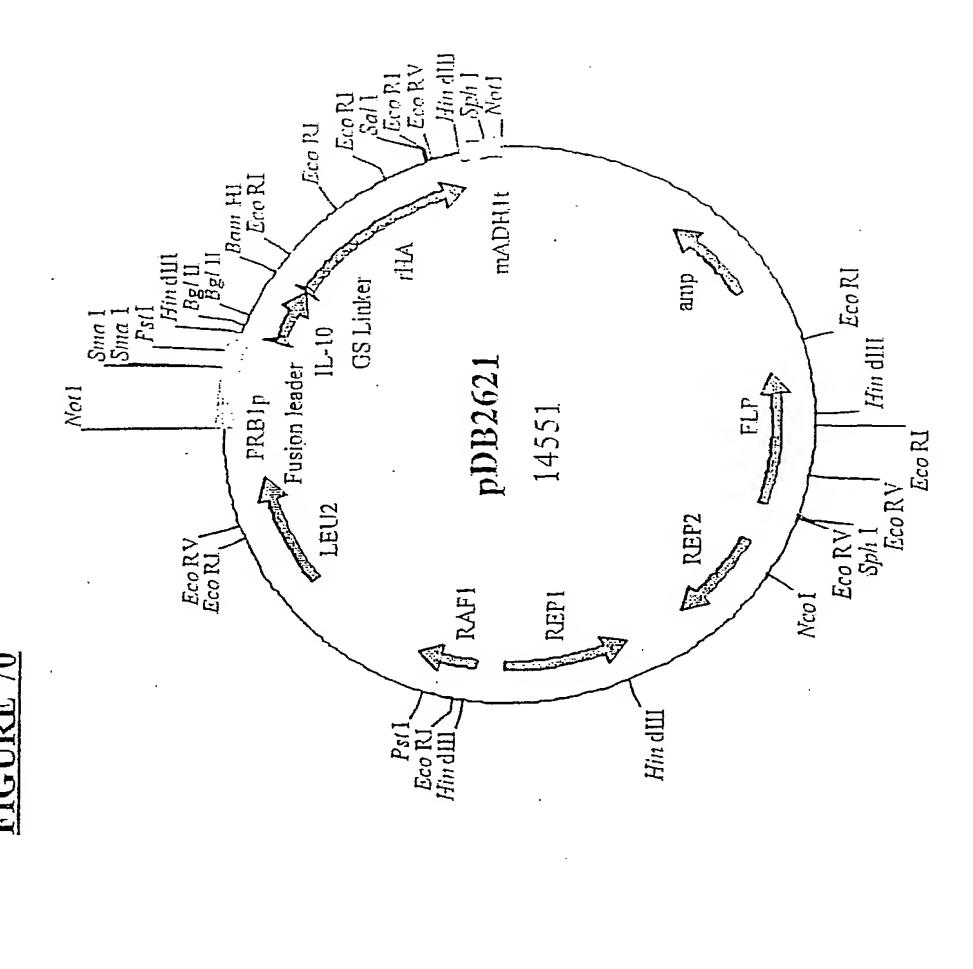
REP.

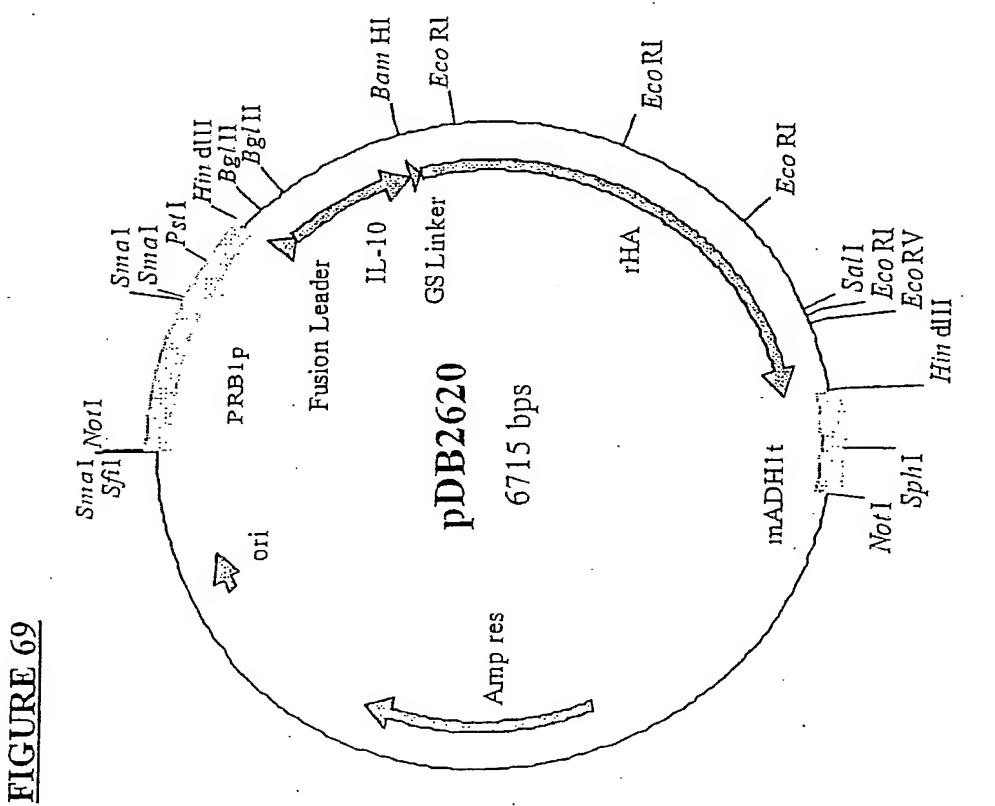
GS Linker

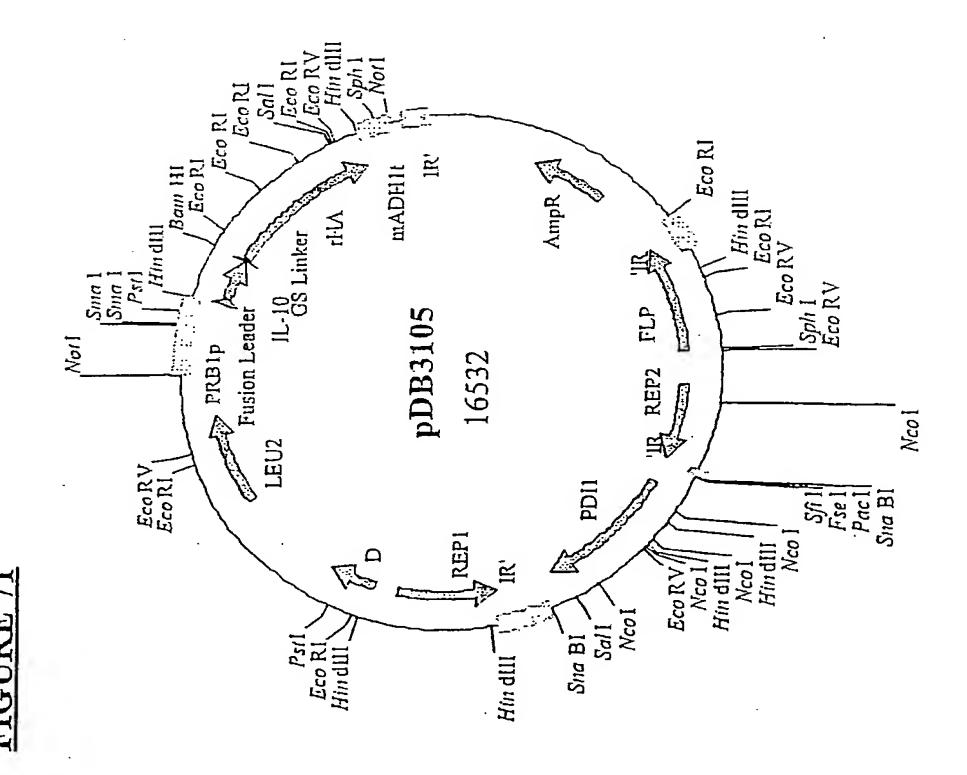
Axokine

Fusion Leader

PRBlp







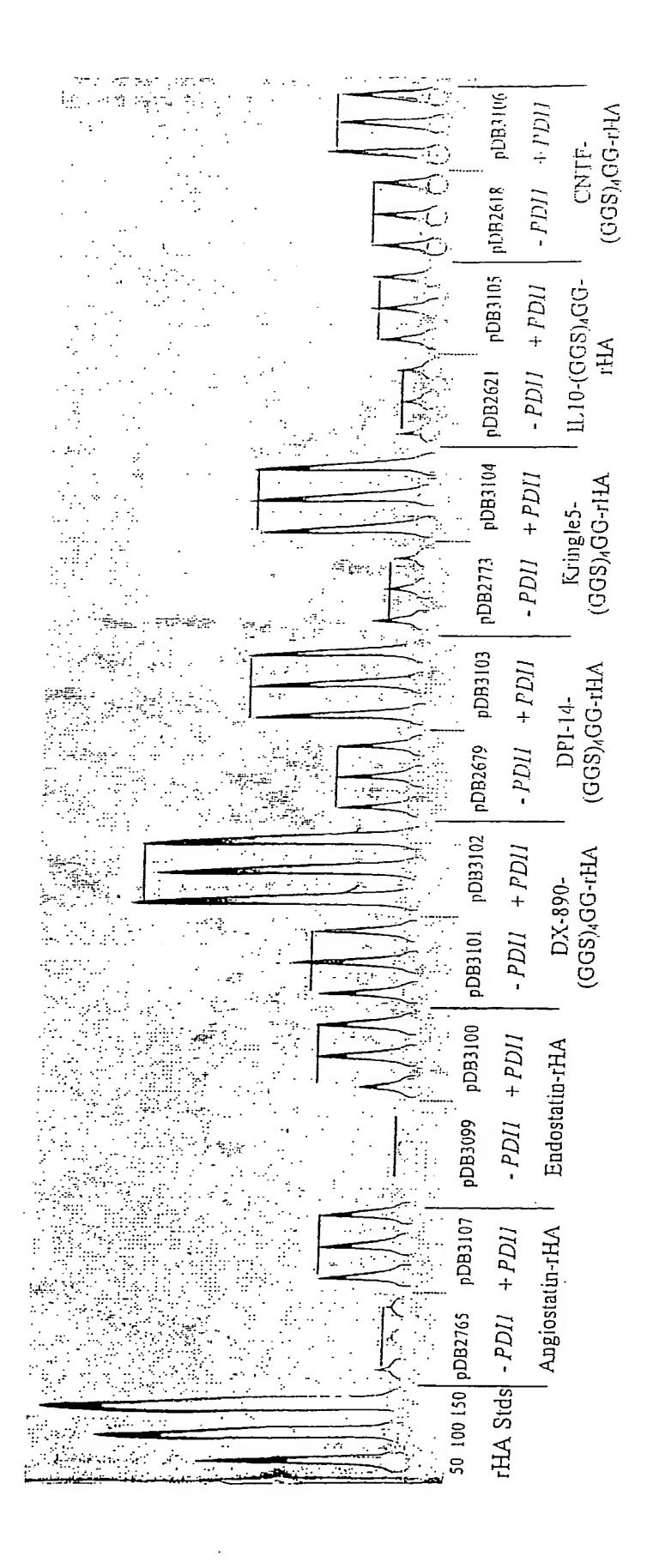
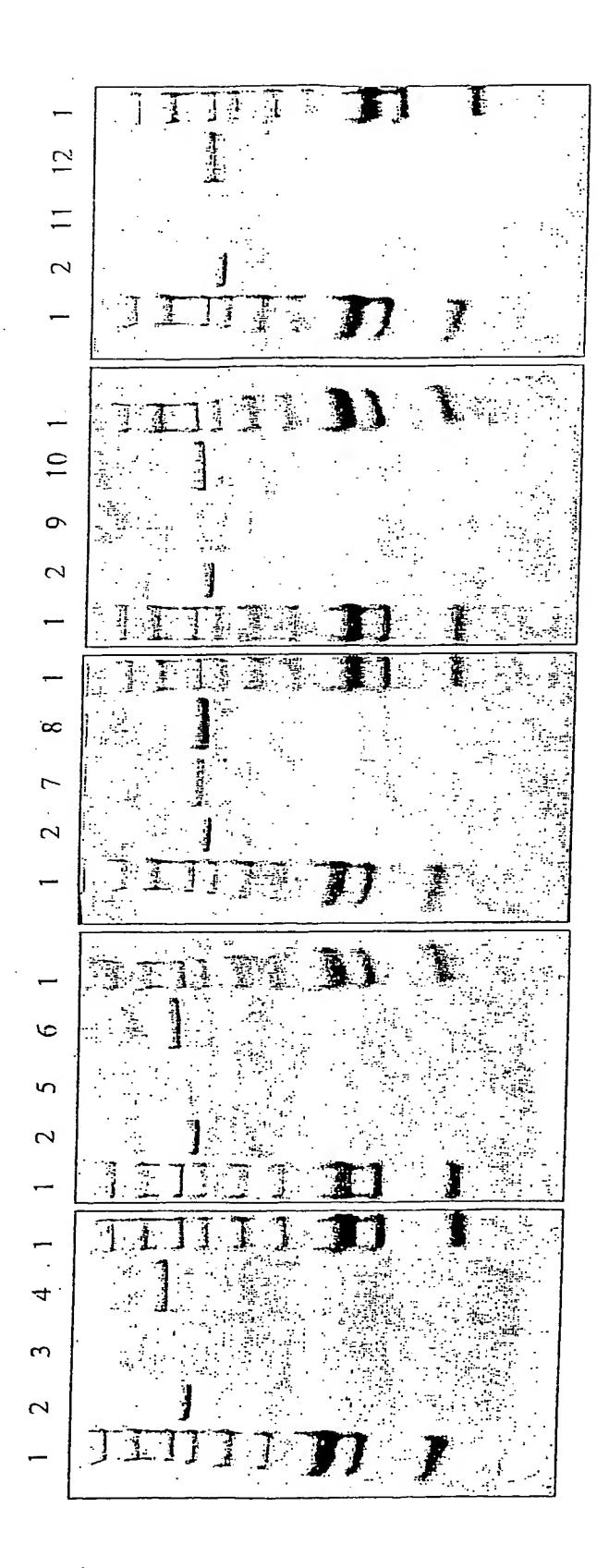
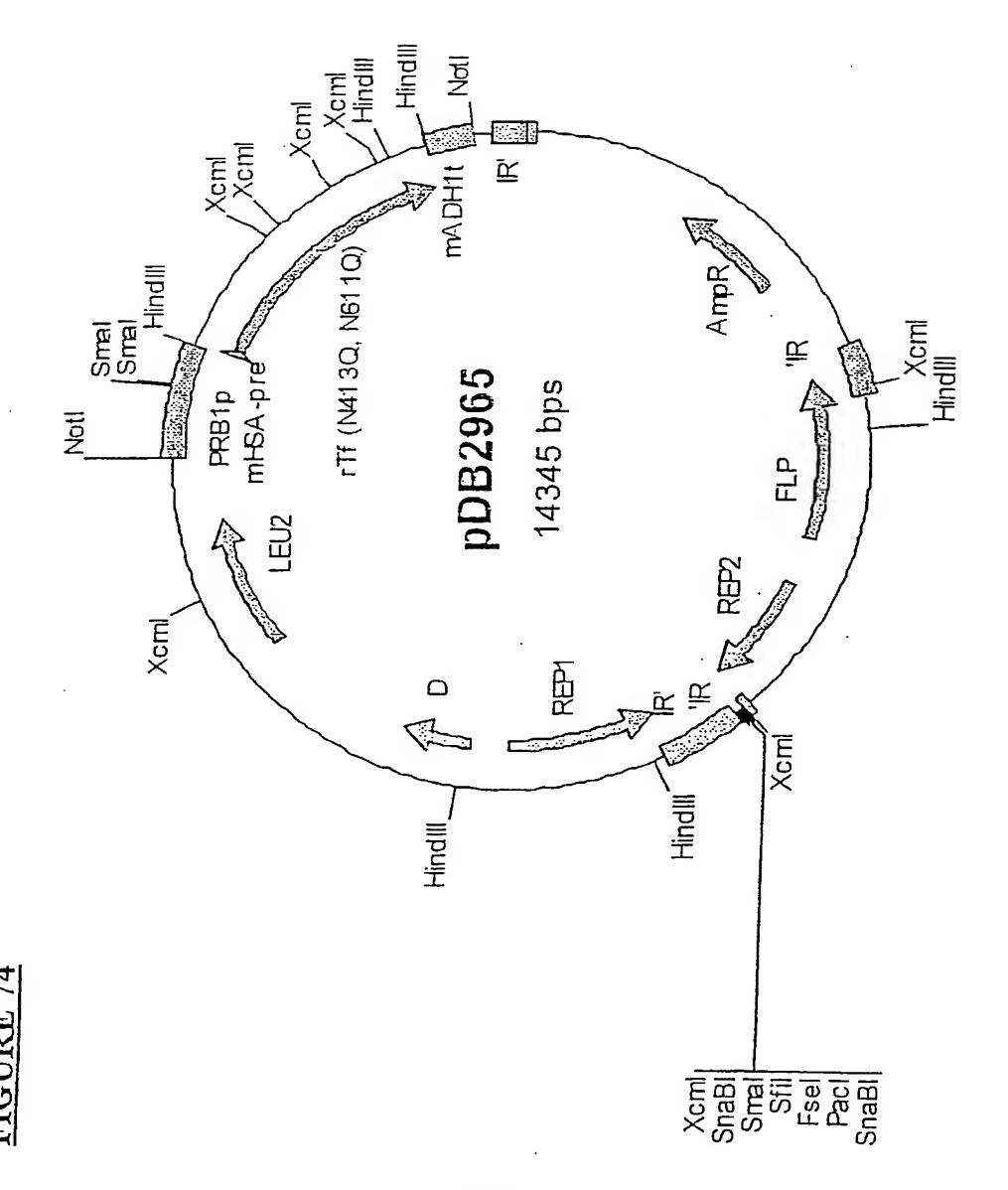
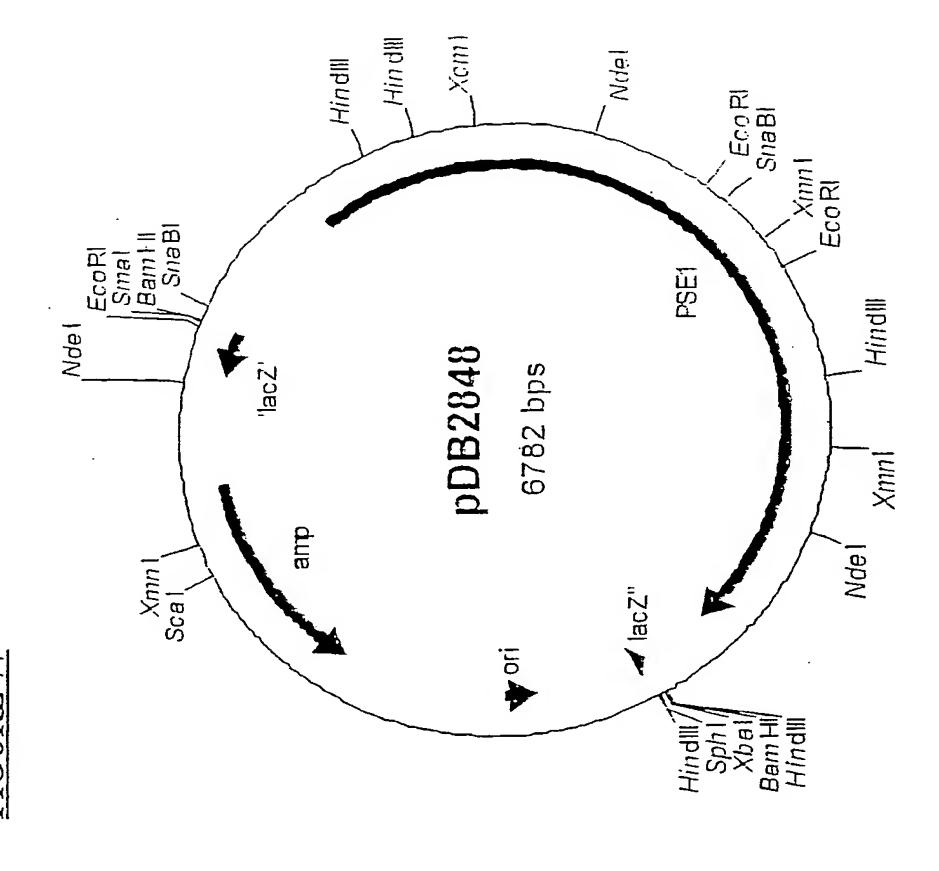


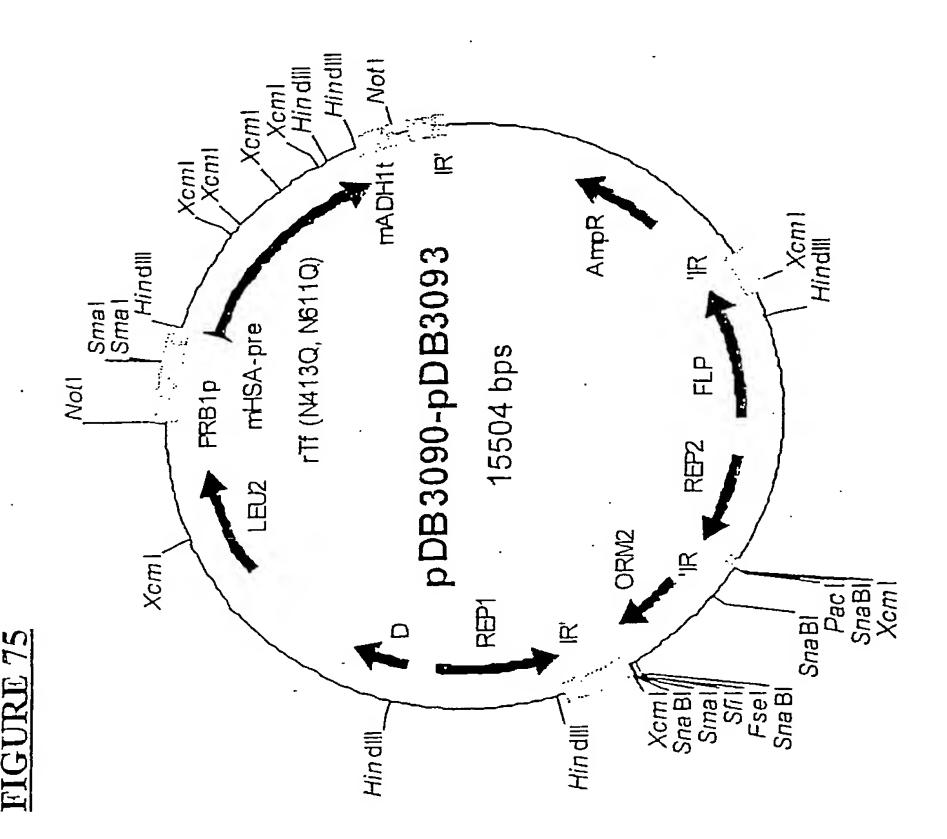
FIGURE 72

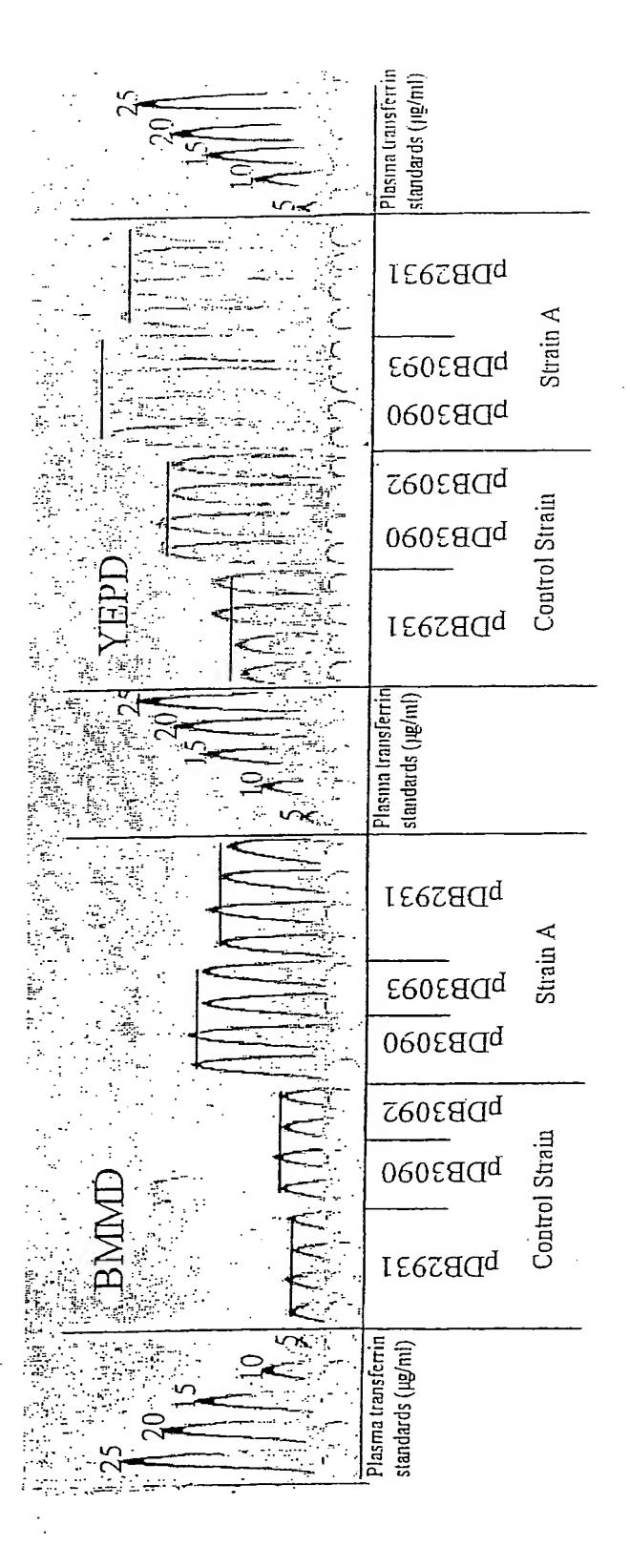


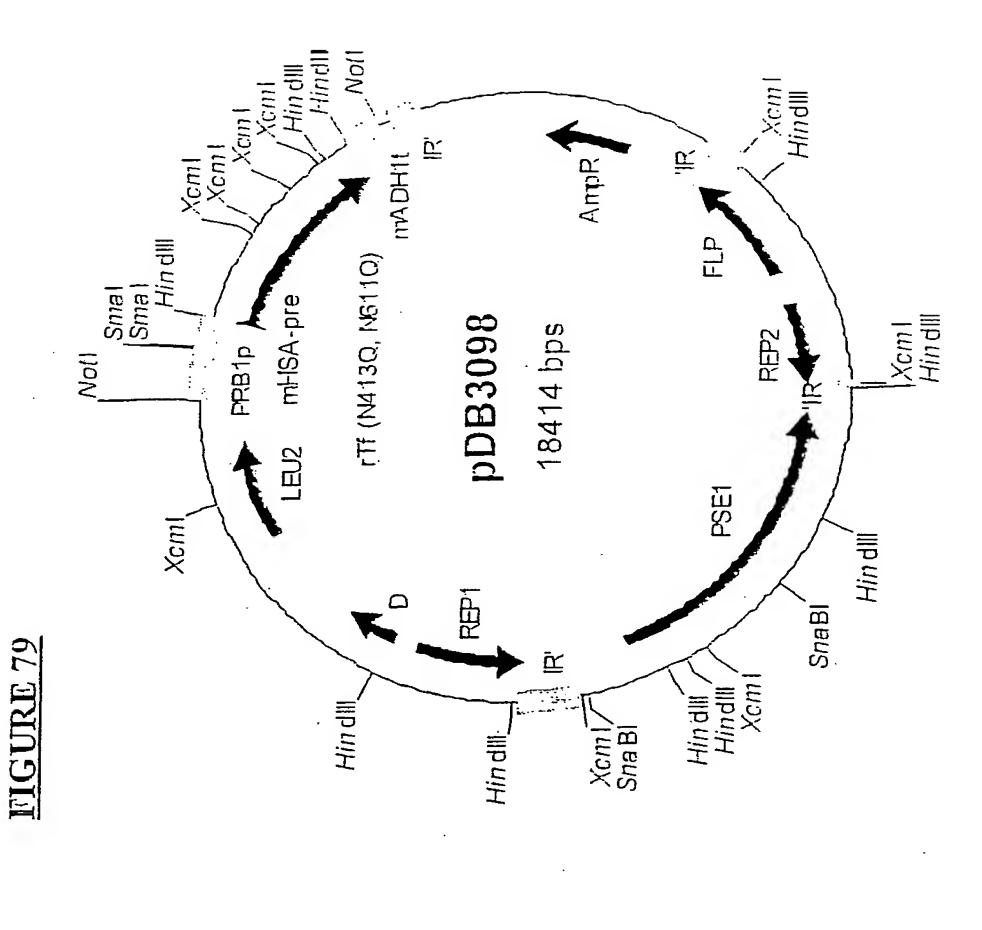


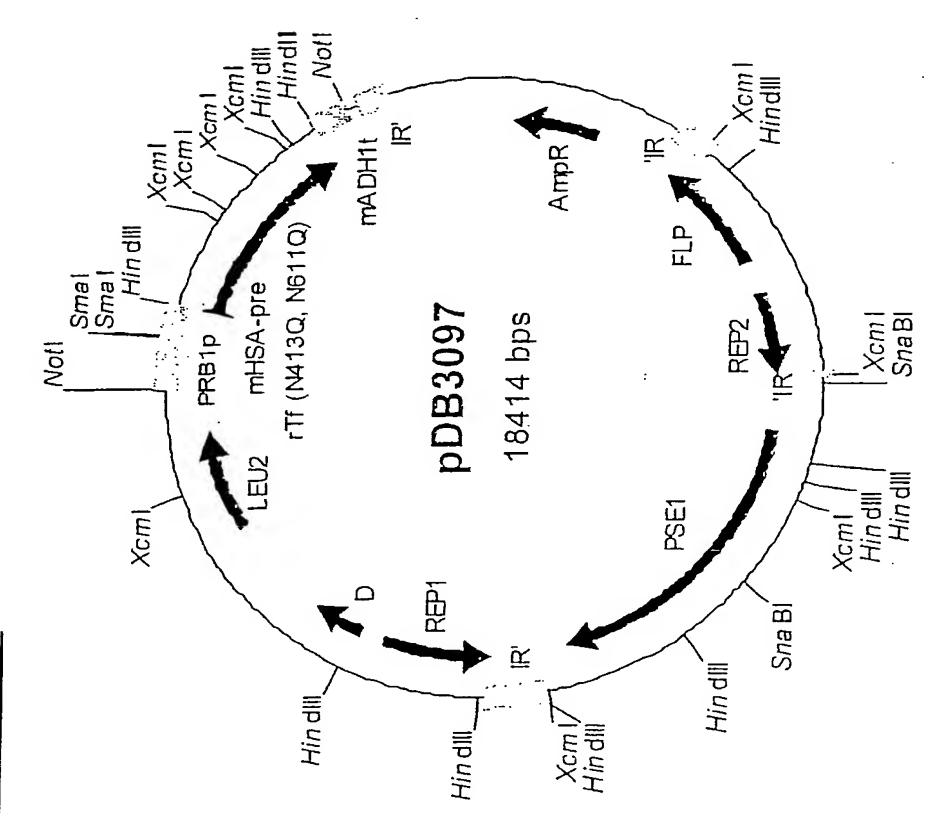












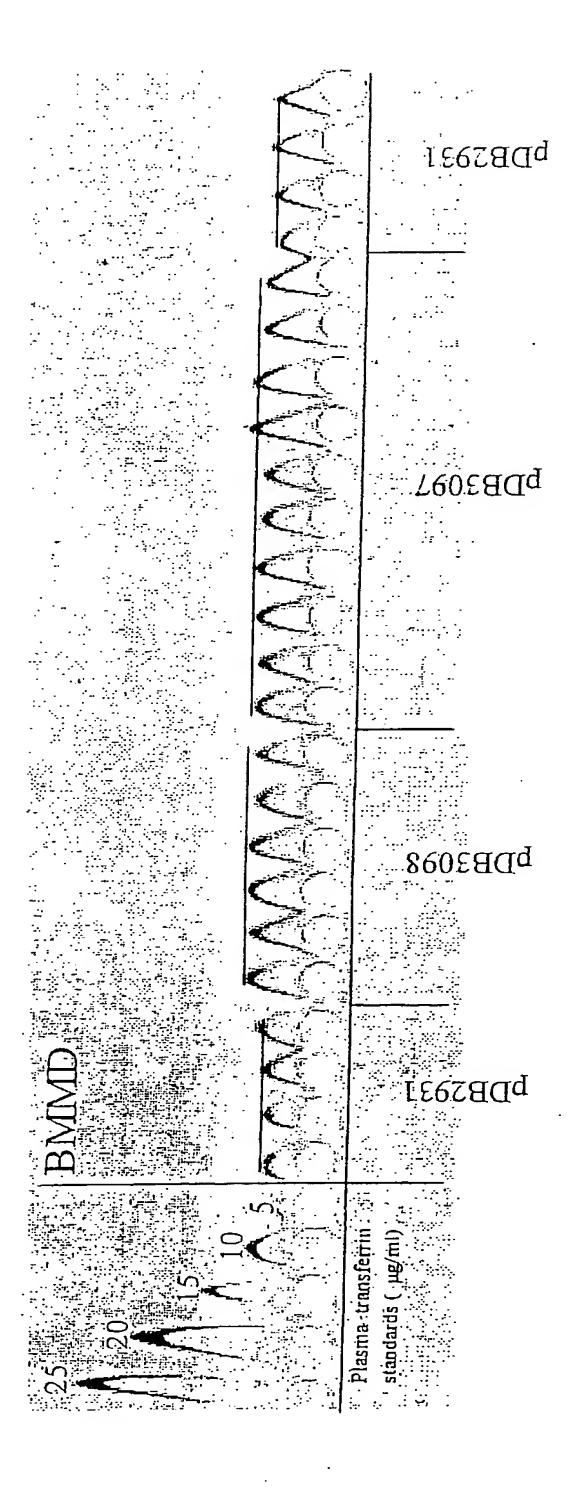
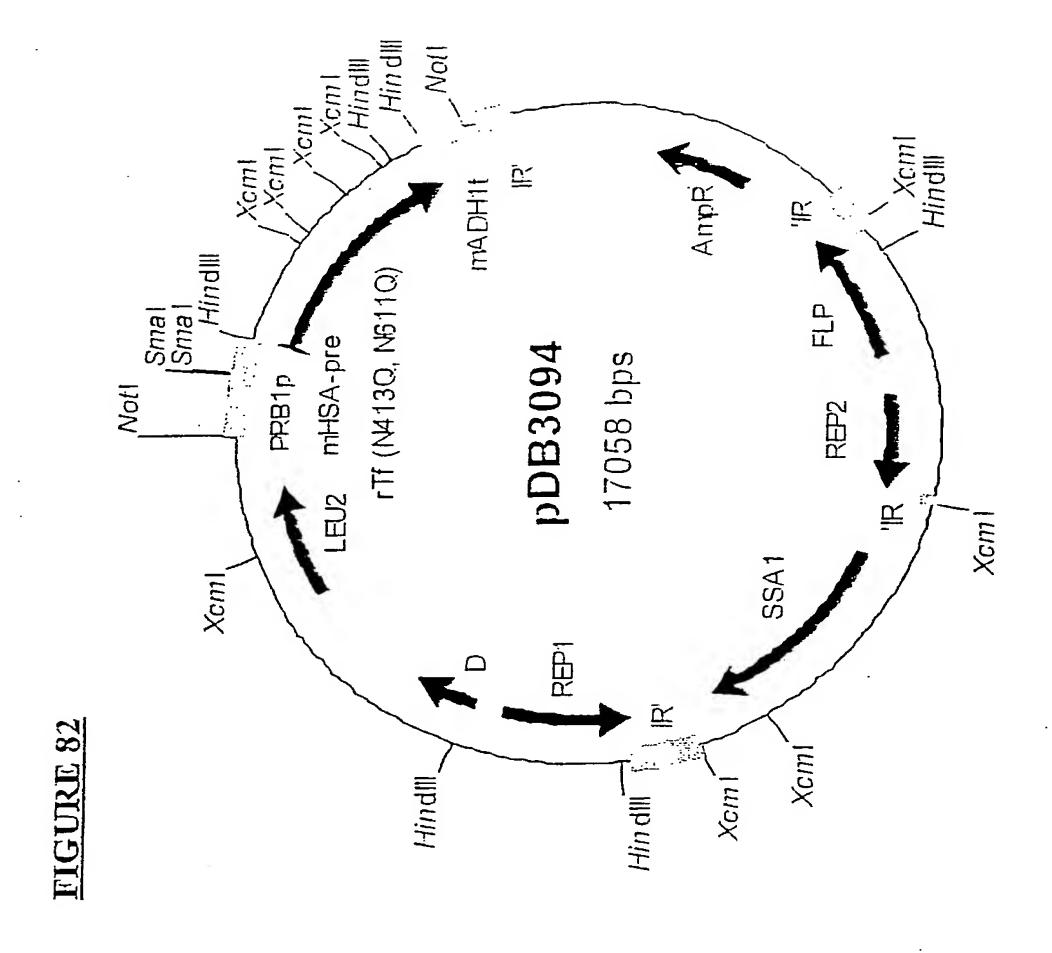
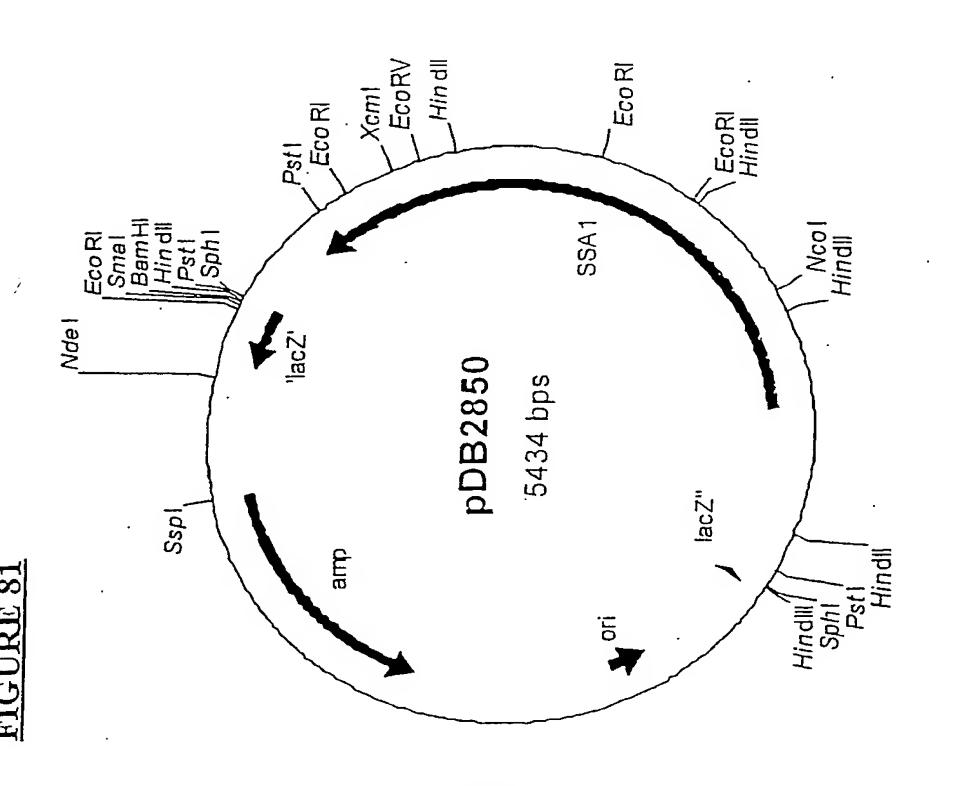
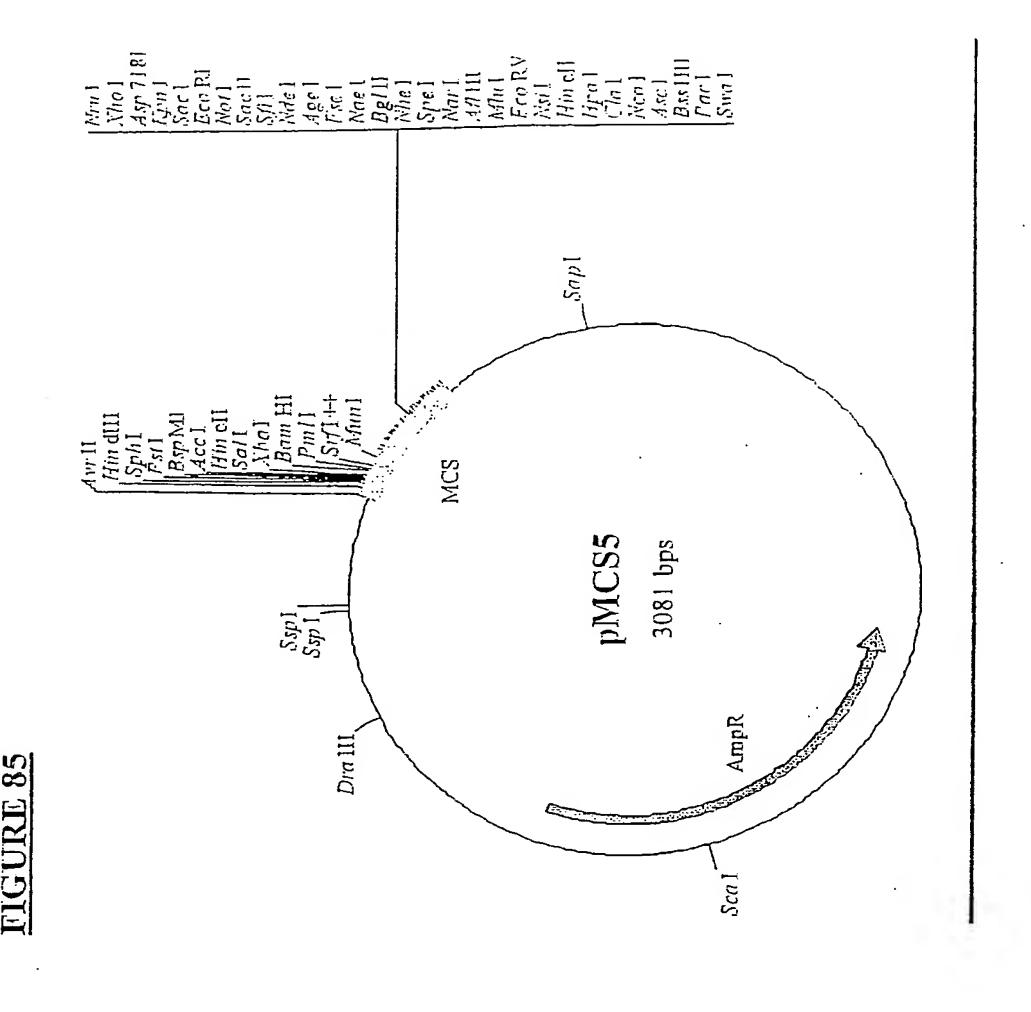


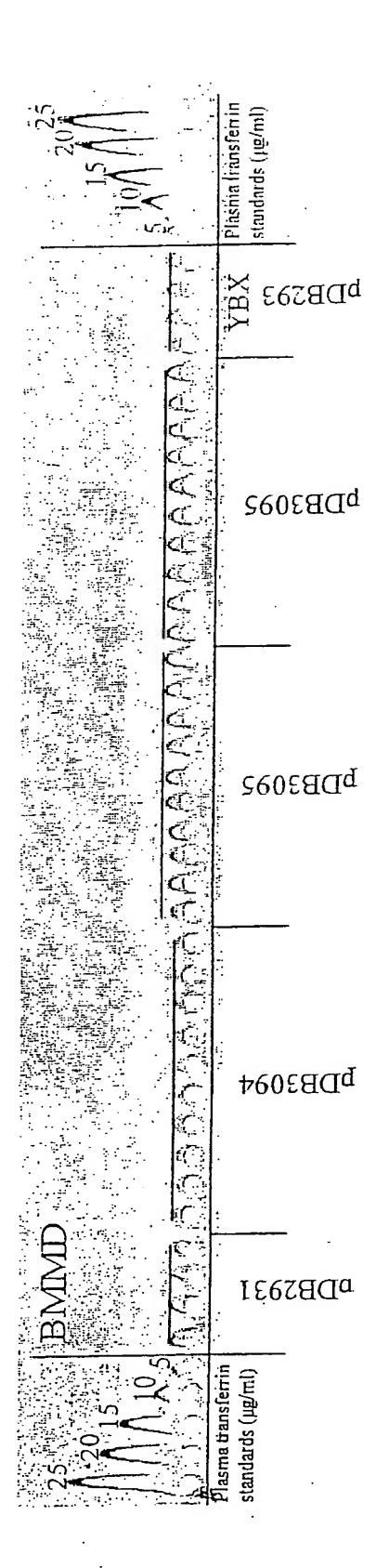
Figure 80







HindIII Noti Xcml mADH1t AmpR $\bar{\overline{\kappa}}$ Hind rTf (N413Q, N611Q) Smal Smal mHSA-pre pDB3095 17058 bps PRB1p Notl Xcm SSA1 Xcml Xcml Xcm1 HindIII Hin dill



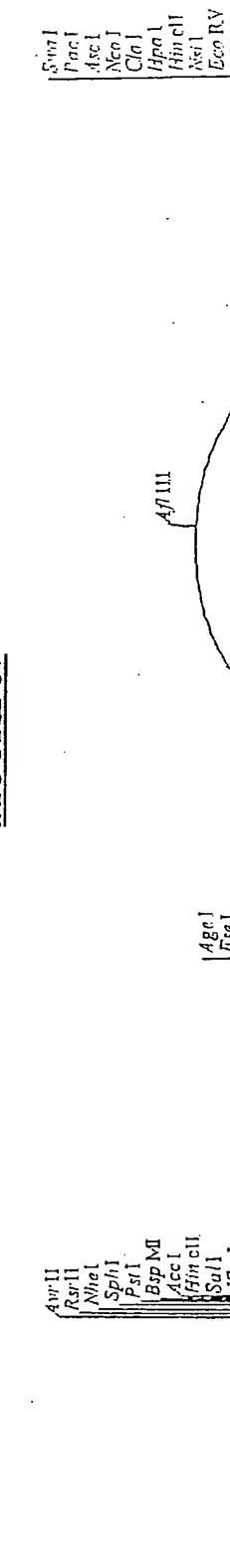
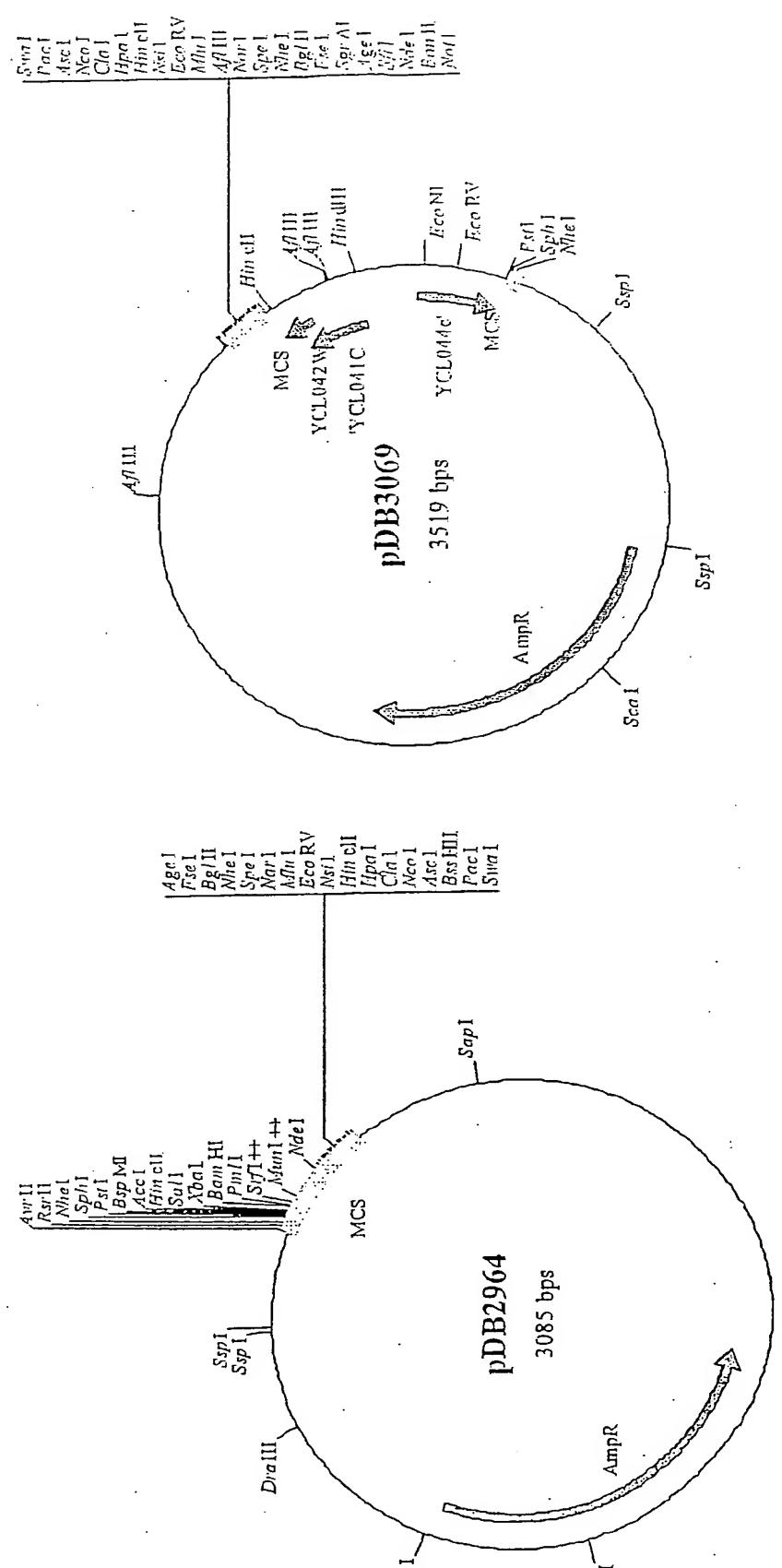
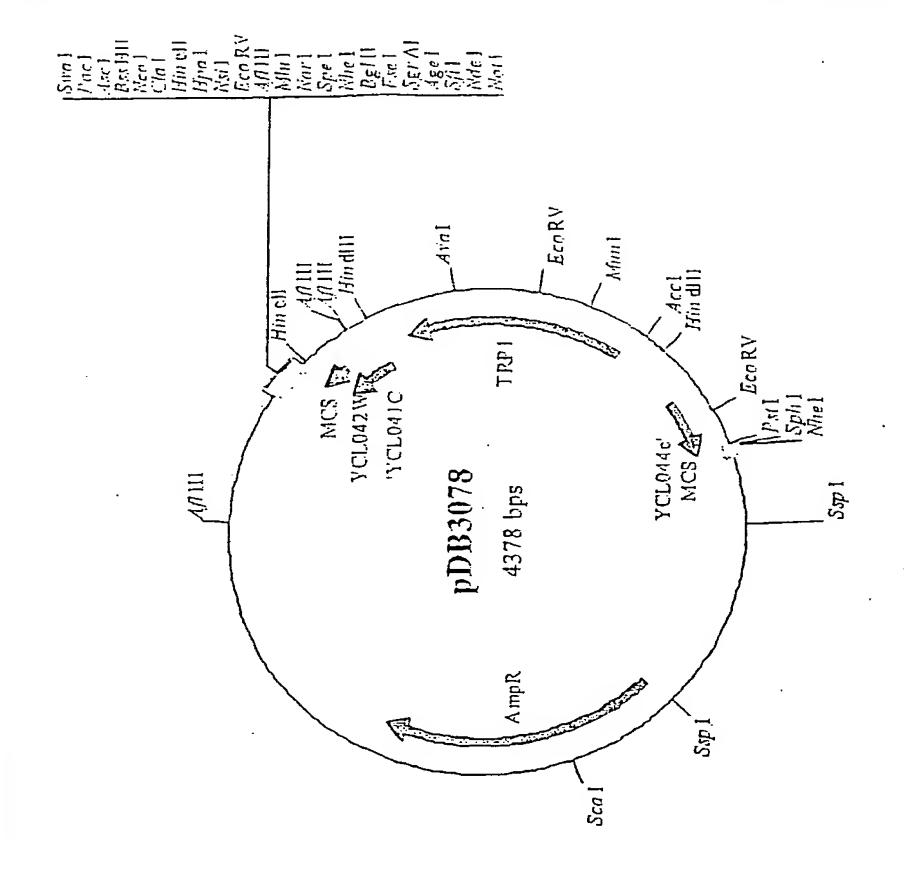
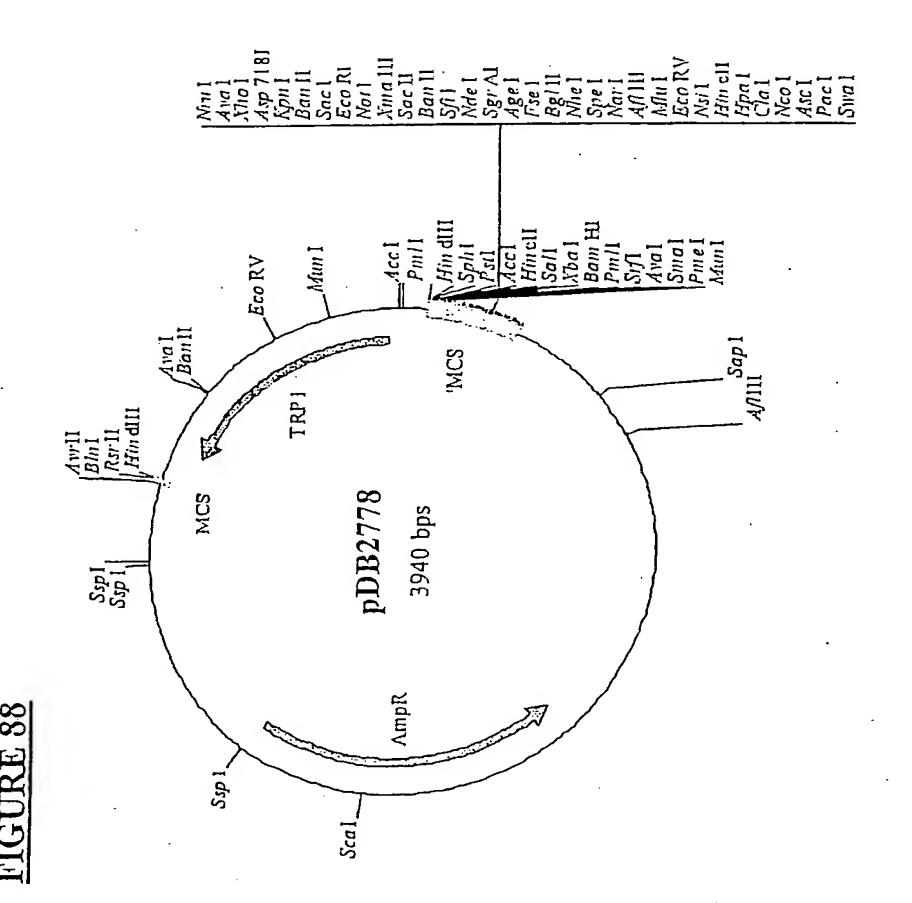


FIGURE 86











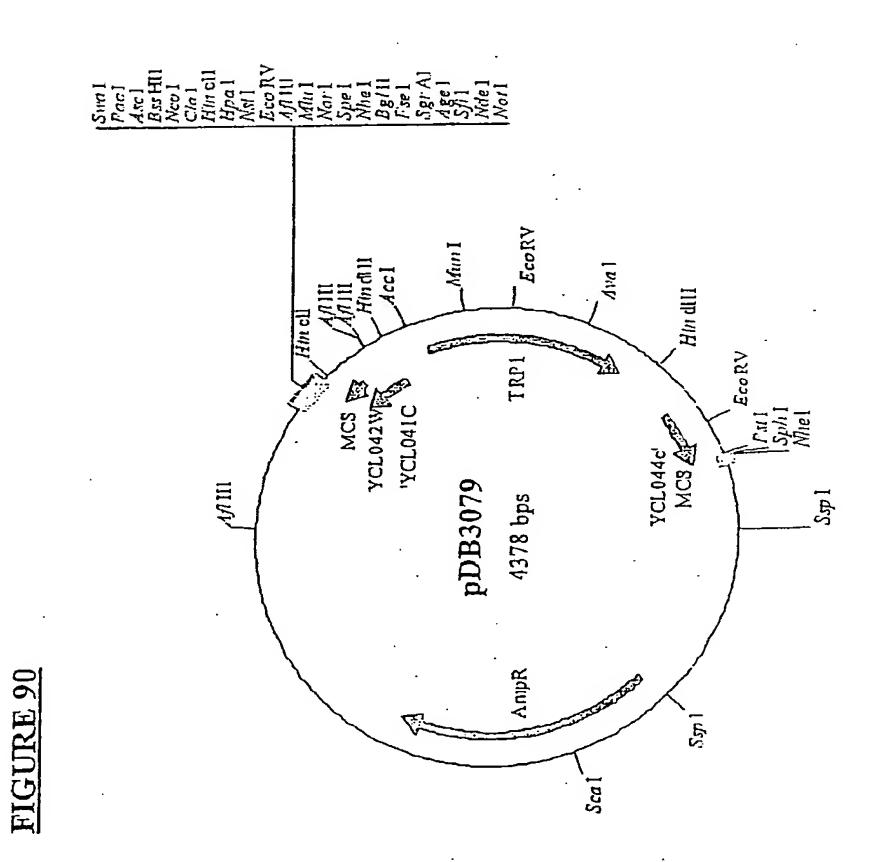
Stp1

Scal

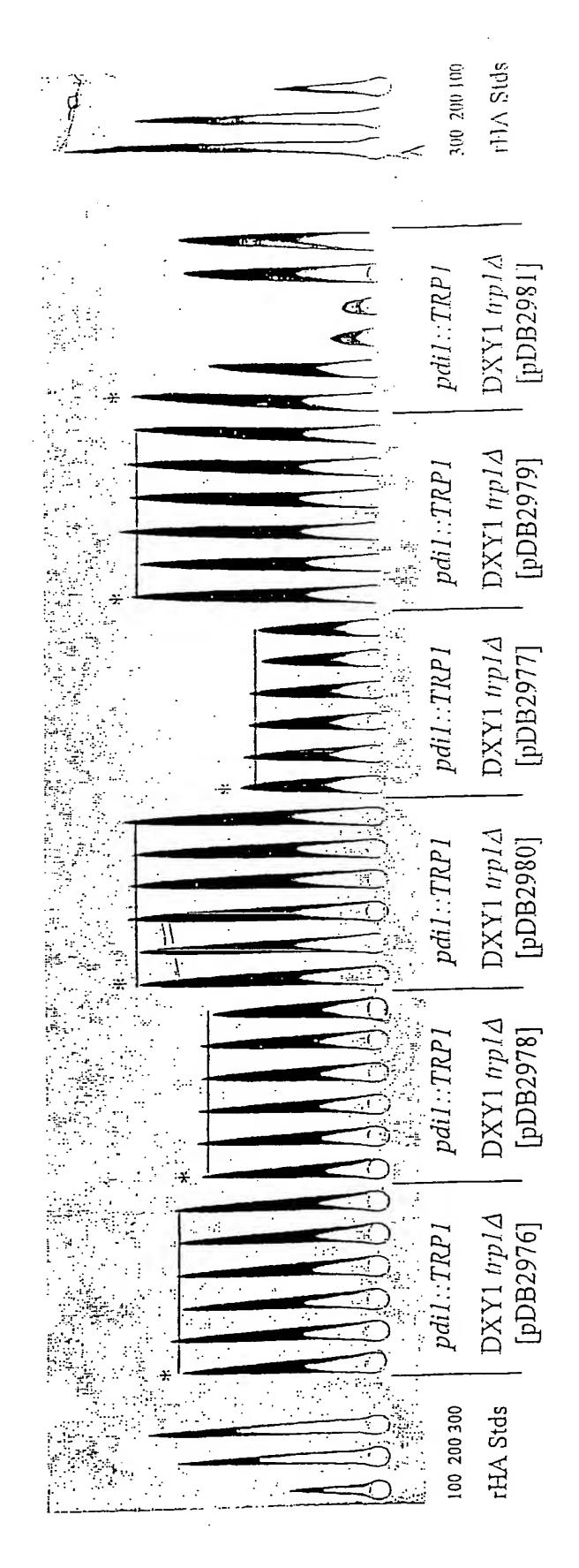
Amp res

Scal

Sca







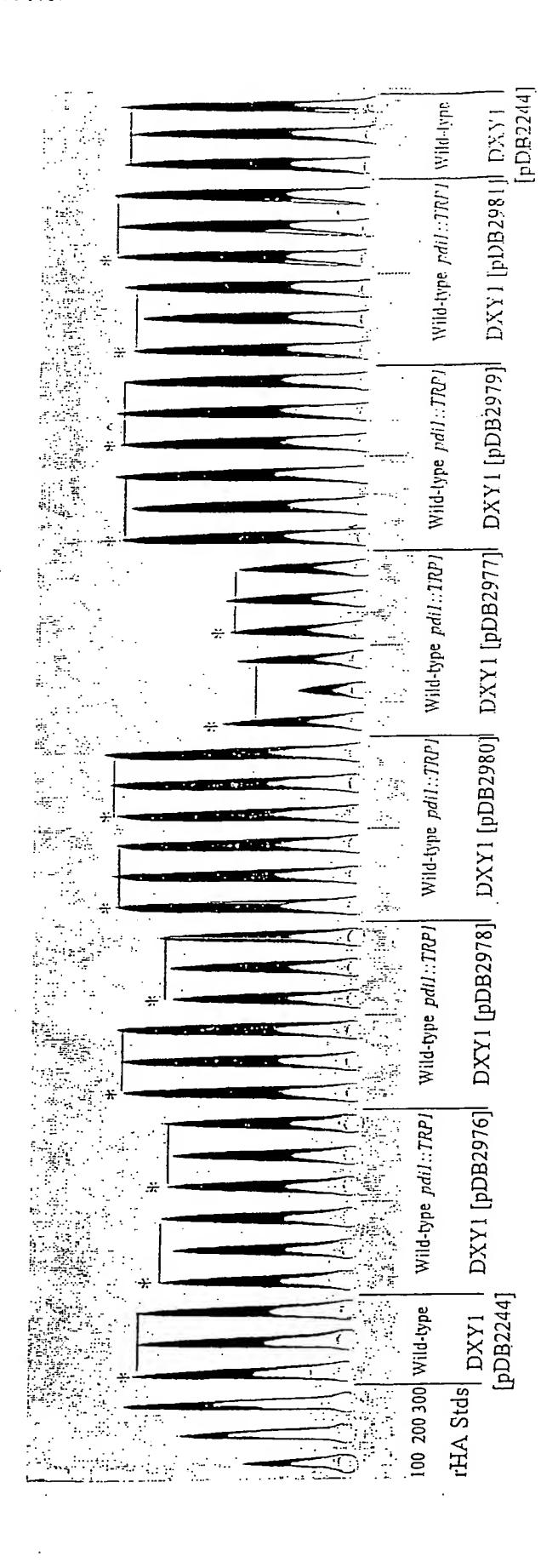


Figure 94A

Alignment Workspace of Ext. meg D. Hein (Weighted)
20 December 2004 15:04

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Figure 94B

Alignment Workspace of ExLimeg J. Hein (Weighted)

20 December 2004 15:04

GESTITATICIANG PARAGAMINACIAN PARAGAMINACIUNICITITANCO PARAGAMANA PARAGAMINA PARAGAMINAN PARAGAMINA PARAMINA DA PARAMINA 0.:0. 0.0. 0.0. 876 880 1100 1210 006 GAAAATTOGZDAGACACGECCAACTTGAAGCATGAAGAACAATTCCCTCTATTTGCCAACTATAGACTTGAAGTACGACTTGAAGTTACGCTTTGCCTCAACTTGAAGTA CIÍTIGGITAAGGAACITICTIGAAAGGIGATIGATIGCCICCCCAAUTGGAAGITCCCAAAGA ACCENTAL DATUTE OF THE TANK THE TRANSPORT OF THE OFFICE OF THE CONTRACT OF THE OFFICE OFFICE OF THE OFFICE OF THE OFFICE OFFICE OFFICE OFFICE OF THE OFFICE אפוניתטויעקטתטכסויוינבקטפתפאבותיקבאבותספערווינים אפוואטפרספסרטלעלילעד. ACEACTPACEACTITICICICOSCIGAAAACGCAGAIGAITIICAAGCIIIICINAITIIACIIICCCCICCOCCAGAACGACTIAAGAAAGCIIIICAAGAAAGCIIIA CTITIGATERAGGACITICTICARAGGICANGOCICOCORAGACTICO AGILCO AGI TITES TO THE CONTROL OF THE TOTAL PROPERTY OF THE PROPERTY OF ACCAGENTACINACISACINITICACIOCCAGINATOSICACINCASINAGANISCACIO 730 740 750 760 77 980 A THE RESERVE OF THE PROPERTY 1080 1190 750 as of the entitle days of a consistence and a 1070 1180 1280 1050 1270 940 AUCOCITORCICATIONITITICAAAAAUGGIIN3CAAGITGGAAGCCITIGCCCTFACT GGGITPACTITGTTCTPACAATGACGAGGAAATTGGAAGAAFPACAAGCCTCTCTTT ACCIACTACCIACTITICICTCOSCICIA A A A COCACIA COMICIA MICA A COTITICIPAL CALL THE SECTION OF T GAAAATICGGCAGACACGCGGGCAACTICAACAIGAAGGAACAATICCCTCTATI 1130 ... 1140 1030 1020 910 800 1120 1010 790 900 1000 1110 890 780 S288c long SKQ2n long 5288c SKQ2n 5288c Sť<u>0</u>2n S288c SKQ2n **S288c** SKQ2n **S288c** SKQ2n

ligure 94C

7.7.2 T	~1
Alignment Workspace of 120 December 2004 15:04	Alignment Workspace of ExLining J. Hein (Weighted) 20 December 2004 15:04
S288c long SKQ2n long	GATICITICA AGAITICCICITICA ATTIBISTICA AGAINA CANDA ATTIBICA AGAINA AGAI
S288c long SKQ2n long	GIGGICACTGIRAGAGANTIGGOCCAAGAGAACTRACTAATACTAACGOCATATICCIAAACGITTITICATAAACTGAACTAATAGAACTAATGIC 1440 1450 1250 12460 12470 1480 1500 1500 1520 1520 1540 GIGGICACTGIRAGAANTIGGOCCCAAGTTACAAGAACTGAAACCCAACTAACACACCAACTTTTTTTT
S288c long Skņ2n long	AGAGGOGICATRANGATIVA 1580 1590 1600 1610 1620 1630 1640 1650 AGAGGOCICATRANGATIVA 1580 1590 1600 1610 1620 1630 1640 1650 AGAGGOCICATRANGATIVACCAACAATCATCATCATCATCATCATCATCATCATCATC
S288c long: SKQ2n long	CATCAAGSAAAACGSTCACITCGACGSTAAGGSCTTTGTIACGAAGGCCCAGGAAAAACSTICATGACGAAAGCCGAAGCCTTGACGAAGCCGAAGCTTCGACGAAGCCGAAGCCGAAGCCGAAGCCTTCGACGAAGCCCGAAGCCGAAGCCGAAGCCGAAGCCGAAGCCGAAGCCGAAGCCGAAGCCGAAGCCGAAGCCGAAGCCGAAGCCGAAGCCGAAGCCGAAGCCTTCCAAGGAAAAACGCCGAAGCCTTCCAAGGACCTTCCAAGGACCCTTCCAAGGACCCTTCCAAGGACCCTTCCAAGGACCCTTCTAACGAAAAAACCCAAAGACCCGAAGCCCTTGTACGAAAAAACCCAAAAAACCGAAAGCCCTTCCAAGCCCCTTGTACGAAAAAAACCCAAAAAACCCAAAGCCCTTTCCAAGGACCCTTTCCAAGGACCCTTTCCAAGCCCTTTCCAAGCCCCTTTCTAACGACCCTTTCTAACGACCCTTTCTAACGACCCTTTCTAACGACCCTTTCTAACGACACTTTCCAACGACACTTCCAACACTTCCAACACTTCCAACACTTCCAACACTTCCAACACTTCCAACACTTCCAACACTTCCAACACTTCCAACACTTCCAACACTTCAACACTTCCAACACACACAAAAAA
S288c long SKQ2n long	ACICEAATICACIEACEAAGATICACEATICACEATICTEATICACTITICACTITICACTITICACTITICACTICAC
S288c long SKQ2n long	AAAAAAATCATAAAAAGATTAAAATTCAAAAATTCAATTATTCATTATTTCGTCACAATTATTTCGTCACAACATTCCACTAAAAAAAA

EcoRI Fsd. BamHil ÆcoRi mADJ411 Ampr 🖄 HindIII EcoRI HindIII **GS** Linker Smal Smal PstI Axokine T.L. IR pDB2618 Fusion Leader 14623 bps PRB1p FLP Ecory! Sphi Ecory Ecory Not LEU2 REP2 EcoRV EcoRL REP1 NcolHindIII Psd. EcoRI HindIII

Psil Bam HI EcoRI EcoRI HindIIIHindIII EcoRI Psil Axokine | | Sall | EcoRI | EcoRV | HindIII pDB2617 GS Linker Smal Smal Fusion Leader rHA mADH1t PRB1p 6787 bps Smal Noil Norl SphI ori B AmpR Ndel

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